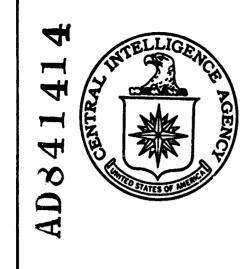
UNCLASSIFIED

AD NUMBER AD841414 **NEW LIMITATION CHANGE** TO Approved for public release, distribution unlimited **FROM** Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Aug 1968. Other requests shall be referred to Central Intelligence Agency, Office of Central Reference, 2430 E. Street, NW, Washington, DC 20505. **AUTHORITY** CIA ltr, 7 Sep 2004



CONSOLIDATED TRANSLATION SURVEY

Number 128

Through 31 August 1968

CENTRAL INTELLIGENCE AGENCY
Washington, D.C. 20505

FOR OFFICIAL USE ONLY

CONSOLIDATED TRANSLATION SURVEY

FOR AUGUST 1968

TABLE OF CONTENTS	
	Page
Preface	iii
Requests for Copies	iv
USSR	,
Economic	1
Political	
Military	5 5 7
Geographic	
Sociological	7
Eastern Europe	
Economic	8
Political	13
Military	14
Geographic	15
Sociological	15
Western Europe	
Economic	17
Political	18
Military	19
Sociological	20
Africa	
Economic	20
Political	21
Geographic	22
Sociological	22
Middle East	
Economic	22
Political	22
Military	22
Far East	
Economic	23
Political	23
Military	24
Sociological	24

	Page
Latin America	
Economic	24
Political	25
Military	28
Geographic	28
Sociological	28
World Wide	
Political	29
Scientific	
Aeronautics	30
Agriculture	30
Astronomy & Astrophysics	34
Atmospheric Sciences	35
Behavioral & Social Sciences	38
Biological & Medical Sciences	39
Chemistry	48
Earth Sciences & Oceanography	55
Electronics & Electrical Engineering	59
Energy Conversion (Non-Propulsive)	68
Materials	70
Mathematical Sciences	88
Mechanical, Industrial, Civil & Marine Engineering	90
Methods & Equipment	97
Missile Technology	102
Navigation, Communications, Detection & Countermeasures	102
Nuclear Science & Technology	103
Physics	106
Propulsion & Fuels	117
Space Technology	120
Miscellaneous	120
Information on Cover-To-Cover Translations	124
Index to Authors	227

CONSOLIDATED TRANSLATION SURVEY

PREFACE

This surevy is prepared monthly from lists received through the cooperation of US government agencies and includes universities, research institutions, and commercial translation organizations. It is a compilation of projects completed or started during the preceding month.

Translations are listed by area and subject category. Scientific projects, are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date of publication, and publication identification of the completed project are given when available. Tables of contents of journals translated cover-to-cover are reproduced from the current publications.

Projects in process, i.e., not completed as of the date of this survey, are noted with an asterisk (*), and when available, a project-control or "in-process" number is noted in parentheses following the title. Certain details may be unavailable in such projects. New projects in process are not listed again until they are completed.

An index to authors of items in this issue is provided at the end of the survey.

Scientific and Technical translations are grouped according to the COSATI subject category list except for military science and ordnance items which are listed under "military" in the appropriate geographic areas.

REQUESTS FOR COPIES

Requests for copies of published projects should be made direct to the designated producing organization.

Addresses of producers to follow:

ACIC - Aeronautical Chart and Information Center (see CFSTI)

ACSI - (see DIA)

AEC - Atomic Energy Commission (see CFSTI)

AF

Department of Air Force Assistant Chief of Staff, Intelligence ATTN: AFCIN-3D Washington, D. C.

AFCRL Res Lib

Air Force Cambridge Research Laboratories Research Library Office of Aerospace Research United States Air Force Laurence G. Hanscom Field Bedford, Massachusetts ATTN: CRMXLR

AGU

American Geophysical Union 1515 Massachusetts Avenue, NW Washington, D. C. 20005

AIP

American Institute of Physics 335 East 45th Street New York, New York 10017

ANL - Argonne National Laboratory, Illinois (see AEC)

BISI

British Iron and Steel Industry Translations Service The Iron and Steel Institute 4 Gorsvenor Gardens London, S. W. 1, England Consultants Bureau Enterprises, Incorporated 227 West 17th Street
New York, New York 10011

CFSTI

Clearinghouse for Federal Scientific and Technical Information (Formerly Office of Technical Services) Port Royal and Braddock Roads Springfield, Virginia 22151

CTT

Columbia Technical Translations 5 Vermont Avenue White Plains, New York 10600

DIA

Defense Intelligence Agency Washington, D. C. 20301

FP

The Faraday Press, Incorporated 84 Fifth Avenue New York, New York 10011

FSTC

Defense Documentation Center Cameron Station Alexandria, Virginia

FTD - Foreign Technology Division (see AF)

HB

Henry Brutcher Technical Translations P.O. Box 157 Altadena, California 91001

IEEE

Institute of Electrical and Electronics Engineers 275 Medison Avenue
New York, New York 10016

U. S. Department of Commerce Clearinghouse for Federal Scientific and Technical Information Joint Publications Research Service Building Tempo E East Adams Drive, 4th and 6th Streets, SW Washington, 9. C. 20443

NIC

Naval Intelligence Command
Naval Intelligence Command Headquarters
NIC-15
Washington, B. C.

NLL

National Lending Library For Science and Technology Boston Spa, Yorkshire, England

N00

U. S. Naval Oceanographic Office Washington, D. C. 20390

NSJ - (see AEC)

NSTIC

Ministry of Defense Room 102, Station Square House St. Mary Cray, Orpington, Kent England

ORNL - Oak Ridge National Laboratory (see AEC)

OSA

Optical Society of America, Incorporated American Institute of Physics 335 East 45th Street New York, New York 10017

PG

Petroleum Geology P.O. Box 171 McLean, Virginia 22101

Plenum Press

Plenum Press, Incorporated 227 West 17th Street New York, New York 10011

Primary Sources

Primary Sources
11 Bleecker Street
New York, New York 10012

RSIC - Defense Documentation Center, Redstone Scientific Information Center (see CFSTI)

Sci & Tech Info Facility

Scientific and Technical Information Facility National Aeronautics and Space Administration Goddard Space Flight Center Contract No NAS-5-12487

SIAM

Society for Industrial and Applied Mathematics P.O. Box 7541
Philadelphia, Pennsylvania 19011

UCRL

University of California Lawrence Radiation Laboratory Livermore, California (see AEC)

Fconomic

Economic Reform in Oil Industry Described, by V. Tarankov, 5 pp. RUSSIAH, np. <u>Bakinskiy Rabochiy</u>, 11 June 1968, p 2. JPRS 45,974

Labor for Construction Projects, 6 pp. RUSSIAN, per, <u>Brulleten' Stroitel'noy Tekhniki</u>, Apr 1968, pp 1-4.
JPRS 45732

Molesale Prices in Food Industry Evaluated, by L. Skvortsov, G. Kabko, 5 pp. RUSSIA., pcr. Dengi 1 Kredit, 5 Mar 1968, pp 34-37. JFRS 46,057

Proposals for Improving fork of Savings Banks, by P. Chetverikov, 11 pp.
RUSSIAN, per, <u>Don'gi i Kredit</u>, No 4, 1968, pp 3-10.
JPRS 46,067

Recommendations for Analyzing Enterprise Operations, by Yo. Mitel'man, 20 pp.
RUSSIAN, per, Den'ni i Kredit, No 4, 1968,
pp 11-25.
JFRS 46,067

Proposal for Changing Credit Planning Discussed, by A. Bilkov, S pp. RUSSIAN, per, Den'gi i Kredit, No 4, 1968, pp 26-31. JPRS 46,067

Cost Accounting at Road Nachinory Building Enterprises, by A. Daugello, 8 pp. RUSSIAN, per, <u>Den'ri i Kredit</u>, No 4, 1968, pp 32-36.
JPRS 45,977

Report on State Bank decomprise Conferences, 15 pp. RUSSIA!, per, <u>Den'gi i Kradit</u>, No 4, 1968, pp 88-94.
JPRS 46,067

Someonic Paradomes in the Textile Industry, by L. Mikhaylov, 5 pp. MUSSIAN, np. Emponichesiana Gazeta, No 15, Apr 1968, pp 10-11. JFRS 45782 USSR Economic (Contd)

Controlling Trade Rebates and Distribution Costs, by M. Bakanov, 5 pp.
RUSSIAN, np, <u>Ekonomicheskaya Gaseta</u>, No 15, Apr 1968, pp 34-35.
JPRS 45742

Making Consumer Goods from Waste Products, by A. Nikitin, 5 pp. RUSSIAN, np. <u>Ekonomicheskaya Gazeta</u>, No 17, Apr 1968, p 22. JRS 45,615

Direct Contracts Define National Economic Plan, by V. Tyukov, P. Lokshin, 10 pp. RUSSIAN, np., <u>Ekonomicheskaya Gasota</u>, No 17, Apr 1968, pp 28-29. JPRS 45,615

Effect of Reform at Gorkiy Motor Vehicle Plant, by I. Parelnin, Yef. Elenov, 6 pp. RUSSIAN, np. <u>Economicheskaya Gaseta</u>, No 18, May 1968, p 11. JPSS 45818

Achievements in lachine Tool Industry Praised, by A. Vladsiyovskiy, 6 pp. RUSSIAH, np. Ekonomicheskaya Gaseta, No 21, 124 1968, F 40.
JPRS 45,976

Uil Firm Head Voices Problems in Economic Reform, by D. A. Takeyev, 5 pp.
RUSSIAN, np. Ekonomichuskava Gazeta, No 22,
lay 1068, p 13.
JPRS 46,068

Director of Leningrad lachine Tool Association Comments on Economic Reform, by G. A. Kulagin, 6 pp. RUSSIAN, np. <u>Ekonomicheskaya Gazeta</u>, No 23, June 1968, pp 12-13. JPRS 45,976

tischanised Mining at hoseow Coal Fields, by S. Lomehev, I. D. Syinskiy, 5 pp. RUSSIAN, ap. Ekonomicheskaya Gazeta, No 24, June 1968, pp 6-7.
JPRS 46,068

Inter-Branch Enterprises Vs. Departmentalism, by Vasiliy Selyunin, 6 pp. RUSSIA!, np. Fionomicheskuva Ganeta, No 25, June 1948, p 14.

USSR Feonomic (Contd)

Problems of Product Sales in Construction, by V. Solntsev, 15 pp. RUSSIAN, per, <u>Ekonomicheskive Nauki</u>, No 3, 1968, pp 16-26.
JFRS 45,860

Medium-Range Economic Forecasting Described, by B. N. Mikhalevskiy, Yu. P. Solov'yev, 27 pp. RUSSIAN, per, <u>Ekonomika i Matematicheskiye Metody</u> Vol IV, No 3, May 1968, pp 315-334. JPRS 45,947

Sociological Studies in Planning Rural Settlements, by M. Spoktor, 11 pp.
RUSSIAN, per, <u>Removally Sel'skogo Chosvavstva</u>,
No 5, May 1968, pp 21-26.
JPRS 45764

System of Hages on Sovichoses, by V. Ehurikov, G. Smallyaninov, 18 pp. RESTAM, per, <u>Homontia Sel'skogo Khompaystva</u>, No 5, May 1968, pp 30-39. JPRS 45764

Location and Development of Subsidiary Industry on Eulkhouse, by V. Poschyalov, 9 pp. HUSSIAN, per, <u>Homostin Sel'skore Reservatra</u>, No 5, they 1968, pp 96-101.

JPSS 45764

Socialist Labor Productivity Rising Constantly, by N. Chayevskaya, 16 pp. RUSSIAH, per, <u>Ekonomika Sovetskoy Ukrainy</u>, No 4, 1968, pp 17-25. JPRS 45,970

Formation of Incentive Funds Described, by F. Levtrinskiy, T. Selivanova, 14 pp. RUSSIAN, per. <u>Skonowika Sovetskov Ukrainv</u>, No 4, 1965, pp 34-41.
JFRS 45,970

Long-Range Forecasting in National Bonnomy, by S. Yampol'skiy, F. Khilyuk, 16 pp. AUSSIAN, per, Economika Sovetskov Ukrainy, No b, 1968, pp 47-55.
JPRS 45,970

thge Fund and Control Over Its Expediture Discussed, by I. Al'tabuller, 6 pp. RUMSTAN, per, Enmantin Straitel'styn, May 1968, pp 20-23. JPMS 45796 USSR Economic (Contd)

Current Activity in Construction Organisations Described, 5 pp. RUSSIAN, per, <u>Ekonomika Stroital'stva</u>, May 1968, pp 71-72. JPRS 45756

Construction Materials Industry in Uzbekistan Discussed, by P. P. Falaleyev, 7 pp. RUSSIAN, per, Ekonomika i Zhizni, No 3, Mar 1968, pp 8-11.
JPRS 45,977

Fixed Capital Structure in Uzbek Coal Industry, by P. Savchenko, 7 pp. RUSSIAN, per, <u>Ekonomika i Zhizn</u>, No 3, 1968, pp 28-31. JFRS 45.974

Kazakh Chemical Industry Praised, by A. Aleshin, 5 pp.
RUSSIAN, np, <u>Kasakhstanskaya Pravda</u>, 26 Kay 1968, p 2.
JPRS 45,861

Shortcomings in Building of Rasdan Power Facilities, by L. Arakelyan, G. Oganesyan, 5 pp. RUSSIAN, np. Kommuniat, 4 June 1968, p 2. JPRS 45,974

Capital Construction Progresses in Uzbekistan, 10 pp. RUSSIAN, per, <u>Kommunist Uzbekistana</u>, No 3, 1968, pp 10-18. JFRS 45,860

International Division of Labor in the Soviet Bloo, by I. Halamikov, 10 pp. RESIAN, per, Journalet Voorsalementh Sil, May 1968, pp 59-65.
JPSS 45762

Fresh Significance of Supply Contracts Discussed, by L. Shor, 16 pp MUSSIAN, per, <u>Haterial*no-Tekhinoheskovo Snabshenive</u>, No 6, 1968, pp 47-56. JFRS 46,070

Calendar of the Distribution, Efficiency and Total Productivity of Herring Platery in the Horwagian Sea, by I. O. Tadanov, 13 pp. MUSEIAM, per, <u>Materialy Rybothogralistycourth</u>
<u>Incledovanii Sermore Maseria</u>, Vol. 10, 1967, pp. 3-13.
«GPSTI TT 68-50475/1

USSR Economic (Contd)

Land Reclamation in CEMA Countries, by V. Mal'nikov, K. Lapidovskiy, 10 pp. RUSSIAN, np. Meshdunarodnyy Sel'skokhosyavstvennyy Zhurnal. Feb 1968, pp 7-11.
JPRS 45782

Experience in Container Transportation on Vessels of the Poltave Type, by B. Khudovekov. RUSSIAN, per, <u>Morskoy Flot</u>, No 3, Mar 1968, pp 11-12. DIA LN 814-68

On Productivity and the Prospects of Fishing in the Waters of the Indian Ocean, by V. G. Bogorov and T. G. Rass RUSSIAN, per, Okeanologiya, Vol 1, 1961, pp 107-109.
NLL Ref: 6113.199 (121)

Froblems of Construction Supply in Kazakhstan Discussed, by I. Kim, 6 pp. RUSSIAN, per, Planovoye Khozyaystvo, No 5, 1968, pp 11-15.
JPRS 45,860

Impact of New Economic System on Railroads, by V. Mitrofanov, 14 pp. RUSSIAN, per, <u>Planovoye Khozyaystvo</u>, No 5, 1968, pp 15-24.

JPRS 45,863

Cost Accounting in Small-Run Multi-Product Production, by V. Moskalenko, 12 pp. RUSSIAN, per, <u>Planovoye Khozyaystvo</u>, No 5, 1968, pp 35-43.
JPRS 45,951

Problems of Economic Reform in Construction. by V. Balakin, V. Levin, 11 pp. RUSSIAN, per, Planovoye Khozyaystvo, No 5, 1968, pp 52-60. JPRS 45,860

Cost Accounting Introduced in Design Organizations, by F. Nazarov, 6 pp.
RUSSIAN, per, <u>Planovoye Khozyaystvo</u>, No 5, 1968, pp 61-64.
JPRS 45.951

Vilingus Municipal Planning Commission Reports, by O. Bogdanovich, 5 pp. RUSSIAN, per, <u>Planovove Khozyaystvo</u>, No 5, 1968, pp 79-81.
JPRS 45,951

USSR Economic (Contd)

Pert Charts in Scientific Research Administration, by V. Arkhangol'skiy, 9 pp. RUSSIAN, per, <u>Planovoye Khozyaystvo</u>, No 5, Fay 1968, pp 87-92. JPRS 45.970

Development of Uzbekistan Discussed in New Book, by N. Fedorenko, Ye. Shchukin, 5 pp. RUSSIAN, per, Planovoye Khozyaystvo, No 5, 1968, pp 94-96.
JPRS 45,951

Raising Profitability in Coal Industry, by S. Ostrobskiy, 13 pp. RUSSIAN, per, <u>Planovoye Khozyaystvo</u>, No 6, 1968, pp 13-20. JPRS 45,952

The Economics of Capital Investments, by Viktor Petrovich Krasovskiy, 123 pp. RUSSIAN, bk, Problemy Ekonomiki Kapital'nykh Vlosheniy, 1967, pp 1-55, 135-167.
JPRS 45797

Consumer Goods Production by Chemical Industry, by G. Vilesov, 5 pp.
RUSSIAN, np, Rabochaya Gazeta, 26 May 1968, p 2.
JPRS 45,861

Regulatory Agency Nooded for Farm Construction, by N. Dibakov, 5 pp. RUSSIAN, np. Sel'skaya Zhizn, 9 June 1968, p 2. JPRS 45,923

Settling Accounts in Stages with Pert Charts, by I. Lapshin, 5 pp.
RUSSIAN, np. Sovetskaya Estoniya, 16 May 1968, p 2.
JPRS 45,923

Problems of Fruit and Vogetable Trade Discussed, by P. Pogorelov, 14 pp. RUSSIAN, per, <u>Sovetskaya Torgovlya</u>, No 6, 1968, pp 14-21. JPRS 46,057

Economic Reform Aids in Organising Scientific Research, by M. P. Ring, 13 pp. RUSSIAN, per, Sovetskoye Gosudarstvo i Pravo, No 3, 1968, pp 67-76.
JPRS 45,911

USSR Economic (Contd)

The Plant and Its Economic Problems, by F. D. Chinchenko, N. I. Voronin, 14 pp. RUSSIAN, per, Sovetskoye Gosudarstvo i Pravo, Apr 1968, pp 77-83.

JPRS 45732

Material and Moral Stemuli for Raising Labor Productivity, by V. S. Byrka, 9 pp. RUBSIAN, per, <u>Sovetskoye Gosudarstvo i Pravo</u>, Apr 1968, pp 103-106. JPRS 45732

The Need of A Port City, by D. Rozhnov, 4 pp. RUSSIAN, np. Sovetskaya Litva, 31 Mar 1968, p 1. DIA LN 743-68

Review of Soviet Economic Developments, by A. Zozulya, 5 pp. RUSSIAN, np. <u>Soviet Russia</u>, 29 Nar 1968, p 3. JPRS 45,970

Now Estimate Standards and Prices in Construction, 5 pp.
RUSSIAN, np. Stroitel nava Gazeta, 31 May 1968, p 3.
JPRS 45,860

Small Steel Stern Trawler, by Kh. A. Leval'd, 3 pp. MUSSIAN, per, Sudostroenie, No 7, 1967, pp 56-58. *CFSTI TT 68-50473

Specialization of Inter-Branch Production, by A. A. Shternov, 6 pp.
RUSSIAH, per, Tekhnologiya i Organizatsiya
Proizvodstva, No 2, 1968, pp 3-5.
JPRS 45,947

Tochnical Progress in Peat Industry Traced, by A. M. Matveyev, 12 pp. RUSSIAN, per, <u>Torfyanava Promyshlennost</u>, May 1968, p. 2-5. JPRS 45,952

Trade Unions Increase Role in Social Security, 5 pp. RUSSIAN, np. <u>Trud</u>, 24 May 1968, p 2. JPRS 45756

USSR Economic (Contd)

Flanning of Interbranch Balance Reviewed, by B. L. Vorkuyev, 9 pi. RUSSIAN, per, <u>Vestnik Moskovskogo Univerriteta</u>, No 5, 1967, pp 94-99.
JPRS 45769

Improve Operation and Strengthen the Economics of the Communications Industry, 9 pp. RUSSIAN, per, <u>Vestnik Svyazi</u>, Vol XXVIII, No 14, Apr 1968.
JPRS 45,958

Streamlining of Bonus Payments Advocated, by I. Chlomskaya, 12 pp.
RUESIAN, per, Voprosy Ekonomiki, Apr 1968, pp 131-137.
JPRS 45821

Planning Model of Production and Realisation of Social Product and National Income, by V. Belkin, V. Ivanter, 16 pp. RISSIAN, per, <u>Voprosy Ekonomiki</u>, May 1968, pp 58-69. JPRS 45769

Fifty Years of Planned Economic Development, by B. Miroshnichenko, 7 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, No 5, Nay 1968, pp 139-142.
JPRS 45.970

Book on American Economics Reviewed, by I. Alekseyev, 5 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, No 5, May 1968, pp 143-145. JPRS 45,970

Work of Ural and Komi Economists, by A. Buslayeva, 6 rp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, No 5, Nay 1968, pp 149-151. JPRS 45,970

Urge Groater Role for Bank in CENA Cooperation, by Honryk Kieiol, 5 pp. POLISH, np. Zycie Gospodarczo, 26 May 1968, p 11. JPRS 46,076

4

USSR Political

Use of Technical Facilities in Propaganda, by Sigizmundas Shimkus, 6 pp. RUSSIAN, per, <u>Kormunist</u>, No 4, Apr 1968, pp 45-46. JPRS 46,051

Let Us Educate Convinced Builders of Communism, by P. Leonov, 12 pp.
RUSSIAN, per, Kommunist, No 8, 31 May 1968, pp 52-61.
JPRS 46,072

A Study of the Laws Governing the Development of the Socialist Society, by G. Aref'yeva, 8 pp.

RUSSIAN, per, Kommunist, No 8, May 1968, pp 113-117. Under the Banner of Proletarian Internationalism, JPRS 46,972

14 pp.

Pravda Marks Anniversary of Birth of Marxism, 7 pp.

RUSSIAN, np.

Pravda, 16 Mar 1968, pp 2-3.

JPRS 45,599

Investigarcty Apparatus of Public Order Agencies, by B. Viktorov, 8 pp. RUSSIAN, np. <u>Sotsialisticheskaya Zakonnost'</u>, Apr 1968, pp 11-15.
JPRS 45820

Latvian Official Presents State Plans for Better Building, by E. K. Peterson, 5 pp. RUSSIAN, np, <u>Sovetskaya Latviya</u>, 11 May 1968, p 2.
JPRS 45821

Great Cooperation Exists Among Socialist Countries, by M. Efremov, 5 pp.
MONGOLIAN, np. <u>Uner</u>, 2 Nov 1967, pp 2, 3.
JPRS 45760

Military

Border Troops Celebrate Fiftieth Anniversary, by P. Chirkin, 6 pp. RUBSIAN, per, <u>Asitator</u>, No 8, 1968, pp 17-19. JPRS 45736

Pentagon's Criminal Weapon, by B. Timofeyev. RUBSIAN, per, <u>Holmet Aritators</u>, No 17, 1967, pp 30-3k. *FTD-RT-23-612-68

USSR Military (Contd)

Certain Problems of Military Construction in the Light of the Military-Philosophical Heritage of V. I. Lenin, by A. Hilovidov, 8 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 7, Apr 1968, pp 8-13.

JPRS 45,601

Fiftieth Anniversary of the Military Commissariats, by A. Chekulayev, 8 pp. RUSSIAN, per, <u>Kommunist Vooruzhennykh Sil</u>, No 7, Apr 1968, pp 22-27.
JPRS 45,601

Under the Banner of Proletarian Internationalism, 14 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 7, Apr 1968, pp 31-37.
JPRS 45,601

The Marines Are Learning to Be Victorious, by N. Belous, 10 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 7, Apr 1968, pp 50-55.
JPRS 45,601

Economic Preparation of the Aggressive Imperialist Elocs for War, by V. Rut'kov, V. Korolev, 12 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 7, Apr 1968, pp 67-74.
JPRS 45,601

History of Soviet Frontier Troops, by G. Zabolotnyy, 10 pp.
RUSSIAN, per, Kommunist Voormahennykh Sil, May 1968, pp 35-41.
JPRS 45775

Role of Komsomol in the Armed Forces, by O. Zinchenko, 8 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, May 1968, pp 42-48.
JPRS 4577S

Better Use of Training Time Urged, by I. Noskov, 7 pp. RUSSIAN, per. Kommunist Voorushennvich Stl. Hay 1968, pp 49-53.
JPRS 45775

Importance of Field Training Stressed, 10 pp. RUBSIAN, per. Kommunist Voormalemerich Sil, May 1968, pp 54-58.

JPRS 45775

USSR Military (Contd)

Review of Book on History of the Armed Forces, by V. Korehunov, 14 pp. RUBSIAN, per, Kommunist Voorushamnych Sil, Hay 1968, pp 87-93.
JPRS 45775

Space Weapons, by K. V. Morosov, 42 pp. RUSSIAN, bk, Kosmicheskove Grushive, 1966, pp 1-54. Pl00148868-V FTD-M-24-121-67

The Law of Missile Service, by Marshal N. I. Krtolov RUSSIAN, np. Krasnaya Zvesda, 1967, 1 p. #ACSI J-5115
FSTC-BT-23-243-68

On Extended Service, by N. Vasil'yev, 5 pp. RUSSIAN, np. <u>Krasnaya Zvenda</u>, 10 Feb 1968, p 3. JPRS 45730

Attackers from the Sky, by V. Margelov. RUSSIAN, np, Krasnaya Zvezda, 20 Feb 1968, p 2. ACSI J-5180 FSTC-HT-23-245-68

Missile Unit Fledges Improved Performance, 6 pp. RUSSIAN, np. Krasmava Tvesda, 6 Apr 1968, p 1. JPRS 45730

A Missile Launching Exercise, by M. Sviridov, 5 pp. MISSIAN, np. Krasnaya Zvenda, 7 Apr 1968, p 2. JPRS 45730

Role of Unit Commander Discussed, by A. Mironenko, 5 pp. RUSSIAN, np. <u>Kraspaya Zvesda</u>, 24 Apr 1968, p 2. JPRS 45730

Recommendations for Improving Pilot Training, by Avm P. Katakhov, 5 pp. HUSSIAN, np. Bramara Iventa, 25 May 1968, p 2. JPRS 45768

Problems of liethodology as Seen by Air Defense Official, by N. Grishkov, 5 pp. RUSSIAN, np. Krasnava Zvesda, 12 June 1968, p 2. JPRS 46,058

Anti-Submarine Warfare Exercise Conducted in the Pacific, by N. Kotysh, 6 pp. RUSSIAN, nps. <u>Krasnava Zvesda</u>, 23 June 1968, p 2. JPRS 46,058

USSR Military (Contd)

Technical Expertise Important to Rocket Commander, by V. Samsonov, 5 pp. RUSSIAN, np. Krasnaya Zvezda, 25 June 1968, p 2. JPRS 46,058

Responsibilities of Cormunists in Hilitary Life Stressed, by S. Isachenko, 6 pp. RUSSIAN, np. Krasnaya Zvezda, 25 June 1968, p 2. JPRS 46.058

Komsomol Role in Pre-Military Training Increasing, by N. Sevrin, 7 pp.
RUSSIAN, per, Krylya Rodiny, No 6, June 1968, pp 1-3.
JPRS 46,058

Marshall Zakharov Traces Role of Science in Military Development, by M. Zakharov, 12 pp. RUSSIAN, per, Nauka i Zhign', No 2, 1968, pp 2-19. JPRS 45736

Major Developments in Armored Vehicles, by A. Frumkin, V. Medvedkov, 6 pp. RUSSIAN, per, <u>Nauka i Zhim</u>', No 2, 1968, pp 37-40, JPRS 45736

On Board a Cruiser on a Long Voyage, by B. Alekseyev, 5 pp. RUSSIAN, np. <u>Prevda</u>, 27 Apr 1968, p 6. JPRS 45730

Round Table Discusses Training of Airborne Troops, 8 pp.
RIBSIAN, per, <u>Sovetskiy Voin</u>, No 8, 1968, pp 6-8.
JPRS 45736

Physical Training Program for Pilots, by A. Sul'yanov, 5 pp. RUSSIAN, per, <u>Sevetakiv Voin</u>, No 8, 1968, pp 43-46. JPBS 45736

Role of Psychology in Tank Training Discussed, by A. Danilov, 5 pp. RUSSIAN, per, <u>Sovetskiv Voin</u>, No 10, May 1968, pp 6-7. JFRS 46,058 USSR Military (Contd)

Party Guidance in Building Soviet Military Might, by V. M. Kulakov, 8 pp. RUSSIAN, rpt, Voprosy Istorii KPSS, May 1968, pp 126-129. JPRS 45736

Review of a Book on Soviet Action in Eastern Europe, by Ye. Yegorov, 7 pp. RUSSIAN, per, <u>Voyenno-Istorioheskiy Zhurnel</u>, Apr 1968, pp 75-79. JPRS 45730

Review of a Book on Coastal Artillery, by D. Popov, 9 pp.
RUSSIAN, per, Voyenno-Istoricheskiy
Zhurnal, Apr 1968, pp 79-85.
JPRS 45730

Rocket Detonators, by A. N. Dorofeyev, 73 pp. RUSSIAN, bk, <u>Varyvateli Raket</u>, 1963, pp 1-87. Pl00135768-V FTD_MT-66-153

Book Review: 'Commander's Foresight in Battle', by A. Tatarchenko, 5 pp.
ENGLISH, per, Soviet Military Review, No 5, May 1968, pp 57-58.
JPRS 45730

Soviet Helicopters and Aircarft Engines. POLISH, per, Polish Air Force Review, June 1968. DIA IR 2878029468

The Soviet Sea Power in the North, 16 pp. SWEDISH, per, Norsk Tidsskrift for Sjovesen, Jan 1968, pp 18-35. DIA LN 857-68

Geography

Geographic Collection, Vol 14 — Hedical Geography. RUSSIAN, bk, Geograficheskiy Sbornik XIV Meditsinskaya Geografiya, 1961, 190 pp. *ACSI J-5271 ID 2204016168

USSR Sociological

A Certificate and a Profession, by P. Katsuba, 6 pp.
RUSSIAN, np. <u>Izvestiya</u>, 16 Apr 1968, p 5.
JPRS 45,612

Economic Training and Education, by N. Veselov, P. Zhukov, 13 pp. RUSSIAN, per, Kormunist, No 8, May 1968, pp 62-72. JPRS 46.072

The Call of the Soviet Theater is to Sorve the People, by Yu. Zavadskiy, Ya. Ratnor, 13 pp. RUSSIAH, per, Kommunist, No 8, May 1968, pp 73-83. JPRS 46,072

Rural Artisans to Develop Subsidiary Crafts, by H. Gorenykin, V. Kulikov, 5 pp. RUSSIAH, np, Sel'skaya Zhizn', 14 June 1968, p 2.

JPRS 46.057

Legal Regulation of Electricity Supply, by B. M. Seynaroyev, 10 pp. RUSSIAN, per, Sovetskove Gosudarstvo i Pravo, Eo 5, 1968, pp 102-106.
JPRS 45,952

Uzbek Culture and Arts Festival in Estonia, by Sh. Rashidov, 5 pp. RUSSIA:, np. <u>Sovetskaya Estoniva</u>, 20 June 1968, p 1. JPRS 46,052

Role of Trade Unions in Organizating Leisure Time, 6 pp. RUSSIAN, np. <u>Trud</u>, 24 May 1968, p 2. JPRS 45756

New Statute Defines Authority and Duties of Local Soviets, 29 pp. RUSSIAN, per, <u>Vedomosti Verkhovnogo Soveta SSSR</u>, No 16, 17 Apr 1968, pp 210-229. JPRS 45737

Statute on Labor Colonies for Minors Approved, 20 pp.
RUSSIAN, pcr. Vedomosti Verkhnogo Soveta SSR, No 23, 5 June 1968, pp 312-325.
JPRS 45,924

Deproving the Training of Scientific and Scientific-Teaching Cadres, 6 pp. RUBSIAN, per, <u>Yestnik Vresher Shkoly</u>, No 1, 1968, pp 3-7.
JPRS 45734

USSR Sociological (Contd)

The Advantage of Network Educational Plans, by B. P. Cherkassov, 11 pp.
RUSSIAN, per, <u>Vestnik Vysshev Shkolv</u>, No 1, 1968, pp 8-15.
JPRS 45734

Initial Parameters of a Graph, by O. F. Gurnov, 7 pp.
RUSSIAN, per, <u>Vestnik Vysshev Shkoly</u>, No 1, 1968, pp 15-20.
JPRS 45734

Analyzing the Content of Courses, by N. M. Komarovskiy, 8 pp. RUSSIAN, per, <u>Vestnik Vysshey Shkoly</u>, No 1, 1968, pp 20-25. JPRS 45734

Modern Mathematics and the Future Engineer, by B. V. Gnedenko, 11 pp. RUSSIAN, per, <u>Vestnik Vysshey Shkoly</u>, No 1, 1968, pp 45-53.
JPRS 45734

Priority and State Interests in the Area of Scientific Discoveries, 8 pp. RUSSIAN, per, <u>Vestnik Vysshey Shkolv</u>, No 1, 1968, pp 84-87.
JPRS 45734

Economic Efficiency and Specialized Education, by V. Komarov, 10 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, Mar 1968, pp 54-62. JPRS 45,612

Elementary School Experiments Discussed, by D. Gombosuren, D. Badsar, 14 pp. MONGOLIAN, per, Surgan Hummujuulegeh, No 5, 1967, pp 14-23.

JPRS 45760

EASTERN EUROPE

Fconomic

Role of Consumer Cooperatives in Expanding the Trade Network, by Kyqeren Fuga, 11 pp. AIBANIAN, per, <u>Brusa e Partise</u>, Apr 1968, pp 29-36. JPRS 45784 Eastern Europe Economic (Contd)

Decree Ratifies Directive on Payments, 10 pp. BULHARIAN, np. Durzhaven Vestnik, 21 May 1968, pp 2-4.
JPRS 45,864

Exchange Problems Hamper Tourist Trade, by R. Zukal, 9 pp.
CZECH, per, Ekonomicka Revue, No 5, May 1968, pp 208-212.
JPRS 46,076

Objectives of National Economy Detailed, by A. Balek, 7 pp. CZECH, per, Ekonomicka Revue, No 5, May 1968, pp 216-219.
JPR: 46,076

Czechoslovakia Lags in Trade with Advanced Nations, by Jan Vecer, 5 pp. CZECH, np. Hospodarske Noviny, 26 Apr 1968, p 11. JPRS 45,864

Ministry of Transportation Submits Action Program, 17 pp. CZECH, per, <u>Zeleznicar</u>, 22 May 1968, pp 7-8. JPRS 45,945

French Paper Reviews Czech Economic Difficulties, by Lucien Laurat, 5 pp.
FRENCH, per, Est et Ouest, 16-31 May 1968, pp 12-14.
JPRS 45,864

Waldeck Rochet Comments on Events in Czechoslovakia and Poland, 8 pp.
FRENCH, np. L'Humanite, 20 Apr 1968, pp 4-5.
JPRS 45.596

A Trotskyite Views the "Rebirth" of Eastern Europe, by Michel Pablo, 12 pp. FRENCH, per, Sous le Drapeau de Socialisme, No 44, Mar-May 1968, pp 6-9.

JPRS 45,596

Democratic Aspects of Casch Events Lauded, by Rene Garraud, 6 pp. FRENCH, np, <u>Unir-Debat</u>, No 16, 10 Apr 1968, pp 8-9. JPRS 45773

Safety Problems in the Operation of BR-5, by V. V. Orlov.
GERMAN, rpt, <u>International Conf. on Fast Reactor Safety</u>, Aix-en-Provence, 1967.
NLL Ref: 9091.9F (Douneay 327)

-8-

Eastern Europe Economic (Contd)

Examination of the Reactivity of Coke Under Blast-Furnace Conditions, by H. Schenck and W. Wenzel. GERMAN, rpt, Proc. of the Int. Congress: Coke in Iron and Steel Industry, 1966, NLL Ref: 9022.046 (99)

Investigation of Absenteeism Time Series, by F. Burkardt and F. Gadow. CERMAN, per, Arbeitswissenschaften, Vol 5, No 5, 1966, pp 143-145. NLL Ref: 8313.4 (5484)

Weld Facings in Chemical Plant and Muclear Reactor Construction, by A. Buchholz GERMAN, per, Bander Bleche Rohre, Vol 8, 1967, pp 585-590. NLL Ref: 9022.4 (67/359)

Economics of the Nuclear Power Station in a Country with Hydroelectric Power, by P. V. Gilli GERMAN, per, Elektrotechnik und Maschinenbau, Vol 84, No 6, 1967, pp 273-282. NLL Ref: 9091.9F (Risley 1327)

Comparative Economic Study of Ships with Conventional and Nuclear Propulsion GERMAN, rpt, Gesellschaft für Kernenergiever-wertung in Schiffbau und Schaffahrt, Aug 1967 wertung in Schiffbau und Schaft NLL Ref: 9091.9F (Risley 1393)

Principles for Investment Location Detailed, 9 pp.
GERIAN, per, Gesetzblatt der Deutschen Demokratischen
Republik, Part II, No 49, 13 Nay 1968, pp 263-266.
JPRS 45,940

Research on Fishing Locations and Conceptions of Fishing Technics at the VEB Fisch Combine
Rostock, by P. Draffehn.

DIA's Renamed, Wholesale Trade Changes Decreed, 6 pp.
GERMAN, per, Gesetsblatt der Deutschen Demokratischen
Republik, No 7, Part III, 22 Nay 1968, pp 22-24;
No 60, Part II, 14 June 1968, pp 339-340.

JPRS 45,945

The lost Extensive Shipping Year on the Rhine Up to the Present, 8 pp. GERMAN, per, Internationale Transport Zeitschrift, No 9, 1 Mar 1968, pp 881-883.

DIA LM 302-68

Fishmeal, Fish Oil, and Other Fishery Products, by Hans-Jurgen Papenfuse, 289 pp.

(ERMAN, bk, Kammer der Technik. Betriebssektion
VEB Fischkombinat / VEB Fachbuchverlag, 1966.

EFSTI TT 68-50172

The Economic Importance of Quality Control, by Gunther Pistorius, 8 pp. GERMAN, per, Material prufung, Vol 10, No 1, 1968, pp 5-7. ACSI J-4825 FSTC-HT-23-123-68

LPG Chairman Explains New Production System, by Fritz Dorn, 13 pp. GERIAH, per, lieue Deutsche Bauernzeitung, 21 June 1968, pp 19-21. JPRS 46,076

Grueneberg Concludes Tenth Peasants' Congress, by Gerhard Grueneberg, 10 pp. GERMAN, np, Neues Deutschland, 19 June 1968, pp 3-4. JPRS 45.945

New Forms of Banagement at the VVB Deep-Sea Fisheries, by H. Schneider. CERMAN, per, Seeverkehr, Vol 8, No 1, 1968, pp 5-6. *CFSTI TT 68-50017/1

New Fishing Nethods in Deep-Sea Fisheries and Their Future Development, by Frits Hartung. CERMAN, per, Seeverkahr, Vol 8, No 1, 1968, pp 34-37. *CFSTI TT 68-50017/2

CERMAN, per, Seeverkehr, Vol 8, No 1, 1968, pp 37-38. *CFSTI TT 68-50017/3

Will Benefit the Entire Rhine, by A. Schaller, GERVAN, per, <u>Strom Und See</u>, Jul-Aug 1967, pp 195-214. DIA IN 666-68

Industrial Plants and Products Taken From Advertisements in Die Technik, 21 pp. GERMAN, per, <u>Die Technik</u>, No 3, 1968, pp A-1-A-16; A-17-A121. DIA LN 781-68

THE RESERVE THE PROPERTY OF TH

First Quarter Manpower, Wage Management Reviewed, by Laszlo Tuu, 6 pp.
MUNARIAM, np. Figvelo, 12 June 1968, p 3.
JPRS 45,940

Differentiation Necessary in Wage Categories, by Istvan Garanvolgyi, 5 pp.
HURGARIAN, np, <u>Figyelo</u>, 12 June 1968, p 5.
JPRS 45,940

GEFA Active in Scientific, Technical Cooperation, by Lajos Vekony, 6 pp. HUKGARIAN, np. <u>Figvelo</u>, 12 June 1968, pp 6-7. JPRS 45,940

Division of Labor in Agriculture Stressed, by Miklos Hegedus, 16 pp.
HUWGARIAN, per, Kozgazdasagi Szemle, May 1968, pp 618-628.
JPRS 45,945

Freight Cars Recently Acquired by MAV, by F. Bela, 15 pp.
HUNGARIAN, per, Kozlekedesi Kozlony,
No S2, Dec 1967, pp 981-986.
DIA LN

Possibilities for Developing Danube Passenger Shipping and Tourism, by J. Arpad, 10 pp. HUNGARIAN, per, Kozlekedesi Kozlony, 21 Jan 1968, pp 50-54.
DIA IN 826-68

More Effective Research, Manpower Utilization, and Replacement.
HUNGARIAN, np, Magyar Nemcet, 12 May
1968, p 8.
JPRS 45755

New System of Financing Technical Research, 10 pp.
HUNGARIAN, per, <u>Magyar Tudomany</u>, Apr 1968, pp 222-229.
JPRS 45,867

Fisheries Economy at the Beginning of a New Year, by Stefan Jaskolski.

POLISH, per, Billetyn Elechoosenia Gospodarki
Rybnel, Vol 5, No 1, 1968, pp 5=10.

GUSTI TT 68-50017/18

Supplying of Market With Fish and Fish Products in 1960-1968.

POLISH, per, <u>Rivletyn Ziednoosenia Gospodarki</u>
Rybnej, Vol 5, 1968, pp 83-86.

EDSTI TT 68-50017/20

Eastern Europe Economic (Contd)

Development of Fishing Fleet, by Adriana Lilpop. POLISH, per, Biuletyn Zjednoosenia Gospodarki Rybnej, Vol 5, No 1, 1968, pp 87-93.

New System of Production Lines on Trawlers, B-22 Type, by Jersy Nodsynski.

POLISH, per, Biuletyn Zjednoozenia Gospodarki Rybnej, Vol 5, No 1, 1968, pp 94-102.

EVSTI TT 68-50017/26

Herring Catches in George Bank Shoals in the 1967 Fishing Season, by D. Iraganik, J. Rudlowski. POLISH, per, Biuletyn Informacyjny Zjednoozenia Gospodarki Rybnej, Vol 5, No 3, 1968, pp 39-45. **CFSTI TT 68-50017/9

Possibilities of Fishing in the Northwestern Atlantic in the First Half of 1968, by B. Draganik, Cz. Zukowski.

POLISH, per, Biuletyn Informacyjny Zjednoczenia Gospodarki Rybnej, Vol 5, No 3, 1968, pp 48-52.

GFSTI TT 68-50017/10

Linear Programming in Transport of the Center of Sales Disposition, by Stanislaw Bera. POLISH, per, Biuletyn Informacyjny Zjednoosenia Gospodarki Rybnej, Vol 5, No 3, 1968, pp 61-68.

M.T. "Carina" - The First Polish Vessel Equipped With a Central Data Logging and Processing System, by B. Ciundxiewicki.

POLISH, per, <u>Budownictwo Ckretowe</u>, Vol 8, No 3, 1968, pp 88-90.

MIFSTI TT 68-50017/23

Effect of Surface-Active Substances on the Crystal Habit of Dihydrated Dypsum, by J. I. Wied, J. W. Syrojezkina.
POLISH, per, Cement Wapno Gips, 20/32, No 7, 1965, pp 181-185.
NLL Ref: 8732 (1299)

CFFA Countries Cooperation, Trade Analysed, by Josef Soldacsuk, 10 pp. POLISH, per, <u>Economic Life</u>, 19 May 1968, pp 1, 10. JPRS 45,864

Economic Planning of the General Overhaul of Basic Generating Plant in Power Stations, by M. Toron POLISH, per, Energetyka, Vol 18, No 12, 1964, pp 365-370.
NLL Ref: 9022.09 (4593)

General Principles of Delivery of Spares for Fachinery and Equipment Between Poland and the Mutual Economic and Countries and Yugoslavia, by Stanislaw Kordzik.

POLISH, per, Gospodarka Materialowa, No 5, 1967, pp 162-164.

*ACSI J-2626

*FSTC-HT-23-223-68

Water Economy Involved in the Regional Plan of the Konin-Leczyca-Inouroclaw Region. POLISH, per, Gospodarka Wodna; June 1967, pp 203-207. DIA Lil 819-68

The Mietkow Reservoir Project, by H. Ladorski, S. Jagielski, 15 pp.
POLISH, per, Gospodarka Wodna, June 1967, pp 213-214.
DIA IN 819-68

Traffic Statistics, 6 pp.
POLISH, per, Kozlekedesi Kozlony,
Dec 1967, pp 959-961.
DIA LN 823-68

Jablonna Conference on Association Experiments, 12 pp.
POLISH, per, Nowe Drogi, May 1968, pp 150-158.
JPRS 45735

Results in Maritime Economy in 1967.
POLISH, per, Technika i Gospodarka Morska,
Vol 18, No 3, 1968, pp 135-136.
#CFSTI TT 68-50017/21

Export of Technical Services Evaluated, by Alicja Solska, 6 pp. POLISH, np. Trybuna Ludu, 20 May 1968, p 3. JPRS 45,864

Jubilee in Sierekow, by Z. Kedsiors. POLISH, per, <u>Wisdomosei Wedkarekie</u>, No 3, 1968, p 3. «CFSTI TT 68-50017/29 Fastern Europe Economic (Contd)

Crayfish Campaign of the Polish Anglers: Union in 1967, by T. Nacinski.
POLISH, per, Wiadomosci Wedkarskie, No 3, 1968, p 6.
#CFSTI TT 68-50017/22

First Quarter 1968 Economic Achievements Reviewed, by G. Pisarski, 9 pp. FOLISH, per, <u>Zagadnienia i Materialy</u>, 8-21 May 1968, pp 6-11.
JPRS 45,940

Zycie Gospodarcze Article by Lysko Criticizes Brus, by Stanislaw Lysko, 12 pp. POLISH, per Zycie Gospodarcze, No 18 and 20, 5, 9 May 1968, p 7. JPRS 45,866

Comments on the Role of Party Organisations in the Administration of the Economy, (Errata), 5 pp. RUMANIAN, per. JPRS 45784

Functions of the Agricultural Bank Described, by Severian Bereamu, 7 pp. RUMANIAN, per, Finante si Credit, Apr 1968, pp 25-30.

JPRS 45,945

Financing Changes for State Farms Reported, by Mihai Busuicceanu, 6 pp.
RUMANIAN, per, <u>Finante si Credit</u>, Apr 1968, pp 53-57.
JPRS 45,945

Rumania's Role in Norld Economy Analyzed, by Gheorghe Radulescu, 6 pp.
RUMANIAN, per, <u>Lumea</u>, 23 May 1968, pp 6-7.
JPRS 45,917

Rumania Needs Good Economic Relations, by Gheorghe Radulescu, 8 pp. RUMANIAN, per, <u>Lumes</u>, 30 May 1968, pp 10-12. JPRS 45,917

Tourism in Rumania and the Growth of Its Booncomic Efficiency, by N. Bondog, 15 pp.
RUMANIAN, per, Problems Booncomics, Vol 21, No 4,
Apr 1968, pp 73-85.
JPRS 45735

Rumania's Soda Industry, by M. Marinescu, 9 pp. RIMANIAN, per, <u>Revista de Chimie</u>, No 4, Apr 1968, pp 197-199.
JPRS 45735

*Statistics on 1967 Rail Transport, by I. V. Ceciu, 10 pp.
RUMANIAN, per, Revista de Statistica, Apr 1968, pp 23-29.
JPRS 45,917

Defects in Chemical Industry Operations Discussed, by Nicolae Pantilie, 5 pp. RUMANIAN, per, <u>Scinteia</u>, 2 June 1968, p 3. JPRS 45,864

Economic Board of Management Established, by Florence Costin, Florin Duca, 5 pp. RUNANIAN, per, <u>Viata Economica</u>, No 22, 31 May 1968, p 5.

JPRS 45,940

Investments in Fixed Assets of Agriculture Following the Reform, by Adela Sabovljevic, 10 pp. SERBO-CROATIAN, rpt, Ekonomika Foljoprivrede, May 1968, pp 295-301.

JPRS 45735

1965 Reform Reflected on Bosnian Cooperatives, by Nahmut Karamehmedovic, 11 pp. SERBO-CROATIA!, per, Ekonomika Poljoprivrede, June 1968, pp 385-393.

JPRS 46,076

1967 Statistics for Socialized Farms Surveyed, by Ugljesa Pavlovic, 6 pp. SERBO-CROATIAN, per, Ekonomika Poljoprivrede, June 1968, pp 445-448.
JPRS 46,076

Yugoslav Bank Reports on Current State of Investment, 5 pp.
SERBO-CROATIAN, per, Ekonowska Politika, 24 June 1968, pp 818-819.
JFRS 46.076

Expropriation, Nationalisation, Construction Reviewed, by Damjan Papic, 13 pp. SERBO-CROATIAN, por, Financije, Mar-Apr 1968, pp 187-195.

JPRS 45,864

Eastern Europe Economic (Contd)

The Financing of Faculties Reviewed (1), by Bosidar Jeloic, 22 pp.
SERBO-CROATIAN, per, Finansile, Mar-Apr 1968, pp 195-212.
JPRS 45784

Savings-Credit Services in Agriculture Examined, by Nikola Vujovic, 9 pp. CROATIAN, per, Glasnik Poljoprivrode i Zadrugarstva, May 1968, pp 8-12.

JPRS 46,076

Mays to Obtain Investment for Tourism Surveyed, by Kreso Car, 8 pp.
SERBO-CROATIAN, per, <u>Neva Trgovina</u>, Apr 1968, pp 170-174.
JFRS 46,076

Federal Economic Chamber Outlines Plans for 1968, 8 pp.
SERBO-CROATIAN, per, Neva Trgovina, Apr 1968, pp 202-204.
JPAS 45,076

Ownership, Leasing of Business Buildings Discussed, by Vasko Misajlovski, 10 pp. SERBO-CROATIAN, per, Opstina, June 1968, pp 30-38. JPRS 45,917

Yugoslav-Bulgarian Postal and Telecommunications Agreement, 9 pp. SERBO-CROATIAN, per, <u>PTT Vesnik</u>, 16 Fay 1968, pp 139-141. JPRS 45,864

Tugoslav Housing Construction in 1964-1967 and 1968 Possibilities, by Dusan Dinkic, 6 pp. SERBO_CROATIAN, np. <u>Privredni Presled</u>, 7 Apr 1968, p 4.

JPRS 45735

Montenegrin Auilders Refused Local Contracts, by Marko Orlandio, 5 pp. SERBO-CROATIAN, np. Privredni Preglod, 7 June 1968, p 2. JPRS 46,076

Food Farm-Retail Price Gap Midening, by Petar Milanovic, 7 pp. SERBO-CROATIAM, np. <u>Privredni Pregled</u>, 16 June 1968, p 3. JPRS 46,076

Refer Adversely Affecting Underdeveloped Areas, by Sozider Cluseevic, 6 pp. Sak W-CRCA/TAK, up, <u>Privredui Progled</u>, 17 June 1963, p. b. JFR: 16,076

River Transportation in 1967, by D. S. Jovanovic, 5 pp. SERBO-CROATIAN, rpt, <u>Transport</u>, Fay 1968, pp 43-45.
JPRS 45735

196? Yugoslav Railreair Operation Analyzed, by Djordje Jovanovic, 9 pp. SER '0-CROAPTA', por, <u>Transport</u>, June 1968, pp. 22-25. CRES 15,940

1967 Nugoslav Highway Income Tallied, by Roho Frkie, 5 pp. S-100-CROATIA:, per, <u>Prancyer</u>, June 1968, pp. 33, 35-36.
JFRS 45,940

Operation of Yugoslav Investment Bank Examined, 5 pp. SLR:0-CROAFTAN, per, <u>Vesnik</u>, Fr 1960, pp 1-3. JPNS 45,040

Political

Loading Role of Party ust to Halmtained, 15 pro-LUEGARIAN, per, <u>Parties Shivot</u>, to 7, hay 196°, pp 3-14. CFRS 45,099

Importance of Study of Harrist Theory Stressed, by Thanas Leci, 13 pp. ALBANIAN, per, Rruss e Partise, Apr 1968, pp 8-19. JFBS 55784

Conference Hold on Improvement in Party Organizational Morks, 25 py.
POIGRAMA's pers harting Shivels on P. Lay 1968, pp 23-24.
JPRU 45,988

Eastern Europe Political

Progress in Restructuring of Rossonol Activity, by Mikolay Dyulgerov, 11 pp. BULGARIAN, per, <u>Parties Zhivot</u>, No 7, May 1968, pp 53-65.
JFRC 45,944

Improvement Reded in Rakeup of Party, by Dolya Koleva, 6 pp.
EURGARIAR, per, Parties Zhivet, he 7, ay 1968, pp 82-06.
JPRS 45,994

Cooperation Hooded Between State and Public Organs, by Fikhail Dinev, 11 pp. CULHARIAH, per, Schetovodstvo i Kontrol, Har 1968, pp 18-26. JPRS 45,917

Israeli Communist Party Officials Interviewed, 9 pp. CZECH, per, <u>Literarni Listy</u>, 13 June 1968, pp 10-11. JPRS 45,919

Democracy Requires Institutional Guarantees, 8 pp. CZECH, per, <u>Reporter</u>, No 19, 8-15 Fay 1968, pp 11-13.
JPRS 45750

Revisionist Camp in Eastern Europe Seen as Breaking Up, 6 pp. FRENCE, np. La Voix du Peuple, No 16, 19 Apr 1968, p 17. JPRS 45.596

Forsonnel, Affiliations of Subversive RED Hamed, by Julius Lader, 13 Pro-GERTA , per, <u>Deutsche Ausschrolitik</u>, Bay 1968, pr 561-96°. JPRS 45,920

State Council Issues GR: Social Court Law, Ppp. G. LANA, por, Gosatzblatt der Deutschen Deudstatischen Republik, Fart I. 11, W June 197, pp 207-238.

Eastern Europe Political (Contd)

Pro-Chinese Communist Party of Poland Indicts PZFR, 30 pp. ITALIAN, np. Nuova Unita, Har, Apr., May 1968. JPRS 45788

Loga-Sowinski Speaks on Construction Day, by Loga-Sowinski, 13 pp. POLISI, por, <u>Fundamenty</u>, 19 Lay 1966, pp 3-4. JPRS 45,864

Jablonski Discusses March Disorders, Schools, by Henryk Jablonski, 24 pp. POLISH, per, <u>Nowe Drog1</u>, No 5, May 1968, pp 18-39. JPRS 45750

Rural Youth Union Activities Support Government, by Zdsislaw Kurowski, 5 pp. POLISH, np. Trybuna Ludu, 4 May 1968, p 3. JPRS 45750

Specches at lational Unity Front Florum Reported, 9 pp.
POLISM, np. Trybuna Ludu, 5 June 1968, p 6.
JERS 45,969

Attention Content on larty Role in Goodalist State, by Lygmant Rybicki, 7 pp.
101101, np. hybuna Ludu, 12 June 1967, pp 3-4.
JERS 55,944

Details of Chilecki Defection Discussed, by Jersy Kochanski, 16 pp. POLISH, np. Zolniers Molnosci, 23 May 1968, p 5. JPRS 45750

Romanian View of the New Caechoelovakia, by Corneliu Viad, 5 pp.
RIMANIAN, per, James, No 20, 9 kg 1968, pp 16-17.
JPRS 45784

The 'Markiet' Nation and Its Role in History, by Constantin Vlad, 7 pp.
RHMANIAN, per, Lagues, No 20, 9 May 1968, pp 20-22.
JPRS 45784

Froletarian Internationalism and the Contemporary Forld, by Ion Serbanesson, 11 pp. RU.AMIAM, per, <u>Lupta de Class</u>, Apr 1968, pp 27-35. JPRG 45,866

Fastern Europe Political (Contd)

Rumanians Struggle for Social Emancipation and National Liberation, by Andrei Otetea, ? pp. NV.ANIAN, por, <u>lupta de Clasa</u>, Apr 1969, pp 42-47.
JPHS 45,866

Elimination of Obstacles to Eoclalist Construction Urged, by Dana Voinea, Liviu Melinte, 16 pp. RU.AMIAN, por, <u>Lupta de Clasa</u>, Apr 1969, pp 64-74. UFAC 45,866

Development of Protection for Disabled Jar Veterans, by Ludimir Vesic, 11 pp. SLRDE-CROWITA., per, <u>Junoslovenski Pregled</u>, Jan 1968, pp 27-30.
JPRS 45,866

Ramifications of Right of Appeal Discussed, by Velimir Tvancovic, 21 pp. DEROO-CROATIAN, por, wardens Uprava, Tar-Apr 1968, pp. 77-92. JFHS 05,963

Froblems of working Organization Directives Cited, by Julije Hovacie, 8 pp. STREO-CREATIA, per, <u>Marcdon Uprava</u>, Mar-Apr 1960, pp. 197-113. JPRS 45,960

Authors of liestile Anengrous leaflets Analyzed, by Djure D. Rebie, Pr. S. Robie, Pr. S. Robie, Pr. 13. Lai, Pay 1963, pr. 15-23. Shid NS.061

Military

Corners . Hithe Grahing Results hvaluated, by France, Chdike, Cop. Cathon, per, <u>Der Kannier</u>, June 1968, p.2. JPN 46,061

Wast German Mational Defense Prognosia Studied, by J. Oroshiu, 6 pp. GLEVAN, por, <u>idlitartechnik</u>, No 4, 1968, pp 185-187. JPAN 46,661

Automation in the Antimirorest Artillery, by W. Spalding, 10 pp. GERNALL, np. jeue Euergher Zeitung, pp 9-10. ACSI J-5063 PSTC-HI-23-226-68

Eastern Europe Military

Technical Development of the Interior Ballistics of Recoilless Guns, by H. Magdeburg Rodner, 7 pp. GERMAN, per, Wissenschaftliche Zeitschrift, No 3, 1966, pp 233-236.

ACSI J-5205
ID 2204037867

Selected Articles from Ground Forces Review (Poland), by Jastrzebski, Chamarczuk, 101 pp. POLISH, per, Prezeglad Wojsk Ladowych, No 11, Nov 1967, pp 17-26; 27-36; 37-57; 58-69; 105-118; 132-141; 178-191. DIA IN 694-68A

Artillerymen, 15 pp.
RUKAHIAH, per, <u>Viata Hilitara</u>, No 12, 1967, pp 8-12.
ACSI J-4507
FSTC-HT-23-100-68

Military Technology on Land, Sea and in the Air, A Waterborne Tank, by S. Korda, 2 pp. SERBO-CROATIAN, Source Unknown, Vol 22, No 1474, 3 Nov 1967, p 2. ACSI J-4836 FSTC-HT-23-110-68

Army Leader Discusses Leadership Controls, by Ilija Tomic, 11 pp. SERBO-CROATIAN, np, Narodna Armija, 12 Apr 1968, p 3. JPRS 45,866

Geography

The state of the s

Changes and Standardization of Names of Cortain Populated Places and Physiographic Entities, 5 pp. POLISH, per, <u>Honitor Polski</u>, 14 Feb 1968, pp 78-80. JPRS 45,940

Activities of Regional Flanning Department, by Jerzy Graescozak, 6 pp. POLISH, per, <u>Nauka Polska</u>, No 1, 1968, pp 149-152. JPRS 45755

Eastern Europe Sociological

Abundance of Foreign Words Corrupts Language, by Xhevat Lloshi, 6 pp.
ALDANIAN, np. Zeri i Rinise, 13 Apr 1968, p 6.
JPRS 45,968

1967 Bulgarian Population Increase Surveyed, by Lyubomir Dinev, 5 pp. BULGARIAN, per, <u>Geografiya</u>, No 4, Apr-Nay 1963, pp 5-8. JPRS 45,904

Ecumenical Movement of Intelligentsia and Students, by Ladislaw Hejdanek, Bohuslav Mazek, 7 pp. CZECH, per, Student, No 22, 29 May 1968, p 3. JPRS 45,920

Minister of Labor Mants Social Security Reforms, Jiri Capek, Vera Mellova, 6 pp. CZECH, por, Svet v Obrazech, No 23, 11 Juno 1968, p 1. JPRS 1,5,944

Increased Role of Transport Police Discussed, by Helmut Nedwig, 5 pp.
GERMAN, np, <u>Fahrt Frei</u>, No 17, Apr 1968, p 8.
JPRS 45750

Law Tolls Tasks, Dutics of the People's Police, 13 pp.
GERHAM, per, <u>Gesetzblatt der Deutschen Demokratischen Republik</u>, Part T, No 11, 14 June 1968, pp 232-237.
JPRS 46,061

Law Regulating the Naintenance of Criminal Records, 12 pp.

GERNAL, per, Gesetzblatt der Drutschen Demokratischen Republik, Part I, No 11, 14 June 1968, pp 237-241.

JPRS 16,066

Law Adapting Penal Regulations to New Penal Code, 42 pp.

GERIAN, por, Gosetzblatt der Deutschen Demokratischen Republik, Part I, No 11, 14 June 1958, pp 242-259.

JERS 46,066

Vocational Training Principles Report Adopted, 25 pp. UERIAN, per, <u>Gosotzblett der Deutschen Demokratischen</u> Republik, Part I, No 12, 14 June 1968, pp 262-272. JPRS 45,968

Eastern Europe Sociological (Contd)

Eastern Europe Sociological (Contd)

Law on Confinement of Psychiatric Cases Adopted, 10 pp. GERIAM, por, Gosetzblatt der Deutschen Demokratischen POLISH, np. Sztandar idodych, 21 May 1968, Republik, Part I, No 13, 14 June 1968, pp 273-276. pp 1, 4. JPRS 45,968

Official is Quizzed on New Criminal Code, by Kurt Muensche, 5 pp. GERIAH, por, Neues Deutschland, 28 June 1968, p 3. JFRS 45,968

Bloc Division of Labor, College Training Stressed, by G. Hannemann, 11 pp. GER Ab, per, Socialistische Aussenwirtschaft, Apr 1968, pp ?-11. JPRS 45,920

GIN Officials Discuss Higher Education Reform, by Jean Villain, 9 pp. GLRIAI, per, Vorumerts, 27 June 1968, pp 4-5. JFRS 46,061

Current Agitprop Tasks in Civil Service, 9 pp. HU: GARIAH, per, Allam es Igazgatas, Apr 1968, pp 289-297. JPRS 45,866

Clarification of Ideological Problems in Teaching Sociology, by Vilmos Merus, 16 pp. HUNGARIAN, per, Tarsadalut Saemle, May 1968, pp 37-JPRS 45784

Mistakes in Polish Social Science Shown, by Tadeuss M. Jaroszewski, 8 pp. POLISH, np. Kultura, 5 May 1968, pp 1, 8, 9. JPRS 45750

Social Olists Discuss Futur: of Social Sciences, POLISH, np. Kultura, 16 June 1968, pr 1, 6-7, JRE 45,930

Sendencies of Jarsey Physics Life Cutlinei. POLICE, por, deve Devat, June 1963, pp 100-119.

Criticism of Film Industry Lieses Lark, by Andread Secappiorski, 9 pp.
POLICE, np. Politica, 25 key 1965, pp 1, 6, 7.
UPAS 45,000

by Halina Lesnicka, 5 pp. pp 1, 4. JPRS 45,968

Journalist Criticizes Baumar Education Theories,

Educators "eed Cooperation of Plant Officials, by Janina Borowska, 6 pp. POLISI, np. Trybuna Ludu, 6 June 1968, p 3. JPRS 145,944

Discussion About Film Industry Continues, by J. A. Szczepancki, 5 pp.
POLISH, np. <u>Trybuna Indu</u>, 7 June 1960, p 3.
JPRS 45,944

Further Reports on Philosophy Discussion Given, 8 pp. POLISH, np. Trybuna Ludu, 8 June 1968, pp 3, 6. JPRS 45,968

Literary Reviews Criticized for "Amateurism, Vagueness", by A. Crisan, 5 pp. RUMANIAH, per, <u>Lupta de Clasa</u>, Apr 1968, pp 124-126. JPRS 45,866

Fire Safety Regulations Bust Not Re Ignored, by Dorel Sourue, 5 pp. RUIALIA:, per, Paza Contra Incendiilor, lhy 1968, rp 20-21 JPRS 45,944

School Investment Increases with Educational Growth, by Florica Divulescu, 5 pp. RU-APIA, np. Scinteia, no 7728, 9 June 1968, p 5. JPRS 45,968

Return to Professional Society in Rumenia Urged, by Valariu Mironescu, 5 pp. RU Al IAII, np. Scintoia, lo 7731, 12 June 1968, p 7. Jins 45.900

Mumanian Villages Urged to Organiza Culture, by Ion horaru, 5 pp.

R.A.IA , np. Scintoia, 12 7732, 13 June 1968, PR 1, 4.

Roundtable Discussion of Rungatan Literary Problems, 20 pp.
RULANTA., np. Tribuna, 2 Nay 1969, p 3: 9 Nay 1969, r 3.
URG #5,920

Eastern Europe Sociological (Contd)

Schools Developed for National Minorities, by Janosl Gabor, 18 pp.
SERBO-CHOATTAN, per, Jugoslovenski Pregled, Jan 1968, pp 31-34.
JPRS 45,866

Changes lade in Travel Documents, by Authored Jabrihafizovic, 10 pp. SERCO-CREATIAN, per, Marodna Uprava, Mar-Apr 1968, pp. 137-194.
JFRO 15,968

Health Improvements in Sosmia-Horzegovina Proposed, by Maso Radie, 11 rp. SERIPO-CROATIAH, per, Marodna Uprava, Har-Apr 1968, pp 149-157. JPRS 45,963

Yugoslavia Studies Problem of Emigrating Workers, by Mihailo Emezevic, 10 pp. SubsC-CROATIA:, per. Socijalna Politika, No h, 20 kay 1968, pp. 24-29. dFRS 45,969

WESTERN EUROPE

Economic

The Importance of the Railroads in Future Transportation, 9 pp. DANISH, per, <u>Jernbane Tidende</u>, No 6, Nar 1968, pp 72-75. DIA LN 854-68

Debate: Cooperation Among Labor Parties: Villy Fuglsang Discusses Unity in Workers' Movement, by Villy Fuglsang, 5 pp. DANISH, np, Land og Folk, 19-20 May 1968, p 2. JPRS 45773

Filtration in Thick Beds, by P. M. Heartjes and C. F. Lerk
FRENCH, per, Genie Chimique, Vol 96, No 2, 1966, pp 333-343.
NLL Ref: 9022.09 (4579)

General Regulations on the Operation of Coal Mines FRENCH, per, <u>Jnl. Official de la Republique</u> Francaise, 1963, pp 176-202; 283-285; 293-333 MLL Ref: 8313.4 (5559) Western Europe Economic (Contd)

Swiss Power Industry in the Melting Pot, by H. R. Siegrist FRENCH, per, New Techniques, Vol 9 B. 4, 1967, pp 143-148. NLL Ref: 9091.9F (Risley 1359)

Printability Research at the Finnish Pulp and Paper Research Institute, by L. Nordman FRENCH, per, Papeterie, Vol 89, No 2, 1967, pp 120-124.

NLL Ref: 5828.4F (12675)

Role of the Amenity Plan in the Success of a Tourist Resort, by G. Brutschi ITALIAN, per, Metra, Vol 6, No 1, 1967, pp 71-75.
NLL Ref: 3774.7 (1729)

The Present Situation of Railroads In Portugal, by E. F. Goncalves, 25 pp.

PORTUGUESE, per, <u>Boletim da C.P.</u>, No 462,
Dec 1967, pp 10-19.
DIA LN 699-68

Health and Economic Status of the Nation, 10 pp. PORTUGUESE, rpt, Sumula do Programa de Acao do Einisterio da Saude, pp 17-22; 29-31; 128-132. DIA IN 755-68

Regime for the Operation of Harbors, 8 pp. PORTUGUESE, per, <u>Visao</u>, Mar 1968.

DIA LN 807-68

The Ministry of Transportation of Brazil. PORTUGUESE, per, <u>Visao</u>. Mar 1968, pp 96-97. DIA LN 807-68

Oil with Our Own Efforts, 4 pp. SPANISH, per, Juventud Rebelde, Mar 1968, p 1. DIA LN 843-68

Economic Development of the Telecommunications Industry. SWEDISH, per, <u>Elteknik</u>, Nay 1967, pp 94-96. DIA LN 126-68

Western Europe Political

Old and New Forms of Transition to Socialism, by Villy Fuglsang, 5 pp. DANISH, per, Land og Folk, 15 May 1968, p 2. JPRS 45,596

Socialist Maturation Is Not Automatic Process, by Villy Fuglsang, 5 pp. DANISH, np. Land og Folk, 29 May 1968, p 2. JPRS 45788

On Revisionist Policy Line Taken by Dutch CP, 6 pp.

DUTCH, np, <u>De Kommunist</u>, No 4, Apr 1968, pp 2, 3.

JPRS 45788

Review of Adam Schaff's Book "Marxism and the Individual Human Being", by Fred Schoonenberg, 10 pp. DUTCH, per, <u>Politick en Cultuur</u>, No 4, Apr 1968, pp 182-191. JPRS 45788

Finnish CP Statement on Party Unity, 14 pp. FINNISH, np, Kansan Untiset, 11 Apr 1968, pp 4, 5. JPRS 45773

Ville Pessi: Internationalism and Mationalism, by Ville Pessi, 8 pp. FINNISH, mp, Kansan Uutiset, 21 and 23 Apr 1968, p 5.

JPRS 45788

Mikael Romberg Lectures on Harkism in Finland, by mikael Romberg, 8 pp. FIRMISM, np, Kansan Untiset, 4, 5, 7 May 1968, p 5. JPRS 45,919

French Communist Comments on Revolt and Revolution, by Roger Garaudy, 15 pp. FRENCH, per, <u>Democratic Nouvelle</u>, No 21, Apr-Kay 1968, pp 4-9.

JPRS 45,919

French CP Comments on Extreme Left, by Roger Chonevel, 7 pp.
FRENCE, per, France Nouvelle, No 1175, 24 Apr 1968, pp 5-7.
JFRS 45773

Western Europe Political (Contd)

Portuguese CP Secretary-General Discusses Antifascist Movement, 9 pp. FRENCH, per, <u>France Nouvelle</u>, No 1176, 2 May 1968, pp 16-18. JPRS 15788

Report to Central Committee of French CP on Budapest Conference, by Georges Marchais, 9 pp. FRENCH, np, <u>1'Humanite</u>, 22 Apr 1968, p 4.

JPRS 45773

French Government Dissolves Radical Groups, 7 pp. PREMICH, np. Le Monde, 14 June 1968, pp 2-3; 15 June 1968, p 4. JPRS 45,919

French Communist Official Answers Students' Questions, by Rene Piquet, 8 pp. FRENCH, per, Le Nouveau Clarte, No 16, Mar 1968, pp 8-11.
JPRS 45,596

Communist Victories and Soviet Defeats, by K. S. Karol, 7 pp. FRENCH, per, Le Nouvel Observateur, No 183, 15-21 May 1968.

JPRS 45788

Swiss Marxist-Leninists Attack Labor Party, by E. V., 6 pp. FRENCH, np, Octobre, Vol 4, No 26, 4 June 1968, p 6.
JPRS 45,919

Trotskyites View Significance of the Budapest Conference, by Pierre Frank, 6 pp. FRENCH, per, Quatrieme Internationale, No 33, Apr 1968, pp 39-1/2.

JPRS 45,596

Sartre Group Calls for Revolution in French CP, by T. M., 8 pp. FRENCH, por, Los Temps Modernes, Vol 23, May-June 1968, pp I-VIII.
JPRS 45,919

Unified Socialist Party Haps French, Other CP's, by Christian Guerche, 5 pp. FRENCH, np. Tribune Socialiste, No 369, 25 Apr 1968, pp 1 and 3.
JPRS 45788

Western Europe Political (Contd)

False French CP Statistics Attacked, by Roger Comte, 6 pp.
FRENCH, np, <u>Uhir-Debat</u>, No 16, 10 Apr 1968, pp 16-17.
JPRS 45773

French CP Central Committee Meeting at Courneuve, by Jacques Courtois, 6 pp. FRENCH, np, Unir-Debat, No 17, 10 May 1968, pp 6-7.
JPRS 45,919

French Communist Group Sees Need for Both Legal and Illegal Revolutionary Tactics, by Rene Garraud, 5 pp.
FRENCH, np. Unir-Debat, No 18, 10 June 1968, pp 2-3.
JPRS 45,919

Evaluation of the May Explosion in France, by Paul Rudel, 5 pp.

FRENCH, np, <u>Unir-Debat</u>, No 18, 10 June 1968, pp 4-5.

JPRS 45,919

French Dissident Communist Comments on 25 November Congress in Moscow, by Henri Amiot, 5 pp. FRENCH, np. <u>Unir-Debat</u>, No 18, 10 June 1968, pp 10-11.

JPRS 45,919

Revolutionary Communists Debate Student Infiltration, 17 pp.
ITALIAN, np, Bandiera Rossa, No 8, 15 Apr 1968, pp 3-4.
JPRS 45.596

Italian CP Chairman Longo: The Situation in Csechoslovakia, by Aldo de Jaco, 6 pp. ITALIAN, np. 1'Unita, 11 May 1968, p 8. JPRS 45773

Trotskyltes See 'New' Workers, Students Leading Revolution, 11 pp.
TTALIAN, np. Bundlers Rossa, No 10, 15 May 1968, pp 2.3.
JPRS 45773

Roland Leroy Discusses Situation in France, by Maria Antonietta Macchiocchi, 7 pp. ITALIAN, np. 1 Unita, 5 June 1968, p 11. JPRS 45,919 Western Europe Political (Contd)

Longo Picks Gut Issues for Italian CP, by Luigi Longo, 15 pp.

THALIAN, np. 1 Unita, 24 June 1968, pp 7-8.

JPRS 45,919

Instructions to Italian Revolutionary Young People on Conducting the Struggle, 18 pp. ITALIAN, per, <u>Rivolusione Proletaria</u>, No 5, May 1968, pp 5-8.
JPRS 45773

Norwegian Left Can Unite on Democracy in Reconcute Life, by Arne Pettersen, 5 pp. NORWEGIAN, per, <u>Friheten</u>, No 20, 17-28 May 1968, pp 5,12.

JPRS 45773

Analysis of Swedish Laftist Organisations, Their Semantics, by Kjell E. Johanson, 15 pp. SWEDISH, per, Socialistisk Debatt, No 1, 1968, pp 9-19.
JPRS 45788

Swiss Labor Party (Communist) to Neet 1-3 November, 6 pp.
SWISS, np. Vorwarts, 9 Nay 1968, p 9.
JPRS 45,596

Military

The Military Aid of France that Goes to Africa, by H. Felgas, 4 pp.
PORTUGUESE, per, <u>Defesa Nacional</u>, No 405,
Jan 1968, pp 281-282.
DIA LN 697-68

Brigade Modernization, by Ulf Brostrom, 7 pp. SWEDISH, per, Arme Nytt, No 4, 1967, pp 14-15. ACSI J-4826 FSTC-HT-23-139-68

Do We Require a Nobile Unit in the Coast Artillery? SWEDISH, per, Norsk Tidsskrift for Sjovesen, Jan 1968, pp 13-17. DIA IN 857-68

The Framework of Defense 2700.
SWEDISH, per, Sveritges Flotts and Officers
Forbundsbladet, No 10 and No 1, 1967 and 1968,
pp 6-9.
DIA IN 856-68

Western Europe Military (Contd)

かって なる

The Navy's New Robot System - The 08, 16 pp. SwinDISM, per, Sverilges Flotta and Officers Forbundsbladet, No 10 and No 1, 1967 and 1968, DIA IN 856-68

Robot 08 - New Weapon System From the Navy, by C. Hammarberg, 8 pp. SWEDISH, per, Sveriges Flotta, No 2, 1968, pp 16-19. DIA LN 858-68

Sociological

by Villy Fuglsang, 5 pp.
DANISH, per, Land og Folk, 12-13 May 1968, p 2. JPRS 45,596

Resolutions Passed During March Disturbances, 13 pp.
Tralian, per, Corrispondenza Socialista, No 5, Nay 1968, pp 273-279.
JFRS 46,061

AFRICA

Economic

Solf-Management in Yugoslavia and Algeria, by Lensnane Djamal, 18 pp. FREE CH, por, Algeric-Actualite, 12-18 Fay 1968, pp 8-12. JPRS 46,074

Iron and Steel Company Sets Up Training Program, PARICH, por, Algorie Actualite, 2-8 June 1968, μρ 24-25. JPRS 46,074

New EEC Aid to Black Africa, 6 pp. FRENCH, per, Bulletin de l'Afrique Noire, 5 June 1968, pp 10282-10285. JPRS 45,877

Africa Economic (Contd)

African Trade Union Characteristics Described, by Charles Bokonga, 9 pp. FREACL:, por, Congo-Afrique, lay 1968, pp 228-234. JPRS 46,074

Economic and Social Problems of Katanga Province, by L. D., 9 pp.
FRENCH, np. Le Courrier d'Afrique, 29 Apr 1968, JPRS 45789

Minister of Labor and Civil Service Surveys Labor Situation in Senegal, by Magatte Lo, 11 pp. FRENCH, np. Dakar-Matin, 2 May 1968, p 6. JPRS 45749

Debate: Cooperation Among Workers and Intellectuals, Four-Year Plan, by M. Abdou Diouf, 9 pp. by Villy Fuglsang, 5 pp.

FRENCH, np. Dakar-Matin, 9 May 1968, p 4. JPRS 45749

> Mestern Economic Aid Frustrates Africa, by E. N. Dongala, 18 pp. FRENCH, per, Etudes Congolaises, Apr-Jun 1968, pp 1-17. JPAS 46,074

Mozambique Enters the Industrial Bra, by Philippe Schneyder, 7 pp. FRENCH, per, France-Eurafrique, Apr 1968, p 25. JPRS 45,877

Activities of the Port of Dakar in 1967, 9 pp. FRENCH, np. Le Moniteur Africain, 23 May 1968, pp 8-11; 13-14.
JPRS 45,877

Congo (Kinshasa) Seoks Industrial Expansion, FREICH, np. Le Honiteur Africain, 4 July 1968, p 5. JPRS 40,074

Africa-Europe Trade Association Problems Reviewed, by M. Van Der Goes Van Naters, FRENCH, np, <u>Le Niger</u>, 29 Apr 1968, p 2: 6 May 1968, p 2. JPRS 45789

Survey of Soviet Aid to Somali Republic, by in Man, 6 pp. Tralian, nr., Corriero della Somalia, 2 Juno 1968, p 3. JPRS 45,877

Africa Economic (Contd)

The Problems of Industrial Development in Madagascar, by P. Laville.
ITALIAN, per, Metra, Vol 5, No 4, 1966, pp 587-601.
NLL Ref: 3774.5 (1731)

Political

Civil Service: Problems and Solutions Reviewed, by "GAM" Kinshase, 14 pp.
FRENCH, np, L'Etolle, 6 May 1968, p 3; 7 May 1968, p 3, 6; 8 May 1968, p 3; 9 May 1968, p 3; 10 May 1968, pp 2-3; 11 May 1968, p 3.
JPRS 45,877

Student Criticism of Malian Socialism Rebutted, by Mamadou Madeira Keita, 14 pp.
FREMICH, np. L'Essor Hebdomadaire, 13 May 1968, pp 1, 2; 14 May 1968, pp 1, 3, 4; 17 May 1968, pp 1, 3, 4.
JPRS 45,877

Political Problems of Contemporary Africa, by Hoktar Ould Daddah, 5 pp. FRENCH, per, Etudes Congolaises, Apr-June 1969, pp 29-33.

JPRS 46,074

Massamba-Debat Clarifies Significance of Inter-Regional Competition, 6 pp. FRENCH, np. <u>Etumba</u>, 2 May 1968, p 5. JPRS 45749

President Toure Speaks on the Guinean Revolution, by Ahmed Sekou Toure, 24 pp. FRENCH, np. Horova, 17-18 Mar 1968, pp 1-5. JPRS 45749

Pamphlet Flays African Political Institutions, by Daniel Beande, 14 pp.
FRENCH, np. Jeune Africae, 4-10 Mar 1968, pp 54-55; 29 Apr-1 May 1968, pp 61-65.
JPHS 45749

Party Leaders Heet to Discuss Reorganisation, 5 pp. FRENCH, np. El Joudiabid, 12-13 May 1968, p 3. JPRS 45789

Africa Political (Contd)

Political Parties of Mauritius, 5 pp. FRENCH, np. Lumiere, 17 Mar 1968, p 5. JPRS 45749

Ivory Coast, New Senegal River States Organisation, by Georges Chaffard, 5 pp. FRENCH, np. Le Nonde Diplomatique, May 1968, pp 1, 11.

JPRS 45749

Party States Position on Problem of Palestine, 8 pp.
FRENCH, np. El Moudiahid, 15 May 1968, p 10.
JPRS 45789

Reflections on Dahomean Political Parties, by Mathias Finagnon Oke, 6 pp.
FRENCH, rpt, Revue Francaise d'Etudes Politiques Africaines, Apr 1968, pp 95-102.
JPRS 45749

African Cadres Needed for Own Nation-Building, by A. Dhary, 6 pp.
FRENCH, per, Rythmes du Monde, Vol 42, No 1, 1968, pp 36-41.
JPRS 45,877

Party Structure and Operation in Guinea, by Andre Mouyabi, 5 pp. FRENCH, np. <u>Ia Semaine</u>, 5 May 1968, pp 3,5. JPRS 45749

Criticism of New Electoral Low in Somalia, 5 pp. FRENCH, np. La Tribuna, 17 July 1968, pp 7-8, 26.
JPRS 46,074

An Extreme Leftist View of Eritres and Somaliland, by Mohamed Dahan, 5 pp. FRENCH, np. <u>Is Voix du Peuple</u>, 10 May 1968, p 12. JPRS 45789

Government's Reply to CGSL Demands, 5 pp.
ITALIAN, np. <u>Corriere della Somalia</u>, 4 June 1968, pp 1, 4,
JPRS 45,877

Africa Geography

Boundaries and Tribes, by M. J. C. Froelich. FRENCH, np, Marches tropicaux et mediterraneens, Vol 24, No 1173, 4 May 1968, pp 1203-1206. *ACIC TC-1436

Sociological

Development of Kinshasa Urban Law Described, by Johan Pauwels, 14 pp. RRENCH, per, Congo-Afrique, May 1968, pp 239-251. JPR3 46,074

Kasai-Occidental: Its Character and Problems, by Asol, 28 pp.

FRENCH, np, Le Courrier d'Afrique, 23 Apr 1968, pp 1-2; 24 Apr 1968, pp 1,5; 25 Apr 1968, pp 1,5; 26 Apr 1968, pp 1,5; 27-28 Apr 1968, pp 1,5; 29 Apr 1968, pp 1,3; 30 Apr-1 May 1968, pp 1,5; 2 May 1968, pp 1,5; 3 May 1968, pp 1,3; and 4-5 May 1968, pp 1, 3, 5.

JPRS 45789

Old Folkways and New Christianity in Madagascar, by Joseph Benoit, 6 pp. FR.NCM, np. Lumiere, 28 Apr 1968, p 4; 5 Nay 1968, p 4; 26 Nay 1968, p 4. JPRS 45,877

Jamea, Growing Bantu Catholic Group, Appraised, by J. Grosjean, 5 pp. SPARISH, per, Mundo Negro, Nay 1968, pp 18-21. JPRS 45,877

MIDDLE EAST

Fconomic

Private Industrial Sector Regulation Discussed, 8 pp. ARABIC, per, <u>Al-Ahram Al-Iqtisadi</u>, 1 May 1968, pp 28-31. JPRS 45761 Middle East Economic (Contd)

Haim Laskov Interviewed on Port Problems, by Betsalel Rubin, 6 pp. HEBREW, np. 41 Hantshmar, 30 Apr 1968, p 6,11. JPRS 45761

Economic Development Needs Curriculum Changes, by Z. Kouvaras, 11 pp. GREEK, np, <u>O Cikonomikos Takhydromos</u>, 16 May 1968, pp 3-4. JPRS 45761

Training of New Textile Workers Improved, by Dang Thi Thanh, 5 pp. VIETNAMESE, np. Ky-thuat Cong-nghiep Nhe, Jan 1968, pp 25-27. JPRS 45817

Political

The Arab Masses Will Not be Defeated, by 'Afif al-Basari, 5 pp.
ARAHIC, np. <u>He al-Aman</u>, 12 May 1968, p 5.
JPRS 45761

Former Marshal Calls for Constitutional Safeguards, by Th Tsakalotos, 5 pp. GREEK, np. <u>Elevtheros Kosmos</u>, 2 May 1968, pp 1, 7. JPRS 45761

Military

Officer Military Training Center Described, by Benjamin Landau, 8 pp.
HEBREW, np. Barabaneh, 14 May 1968, pp 8-9.
JFRS 45761

Rev-Aluf Tsur Interviewed on Defense, by Benjamin Iandau, 6 pp. HERREN, np. Banahanah, 21 May 1968, pp 6-7. JPSS 45761

Economic

Communist China's Paper Industry Surveyed, by Lu Yun, 9 pm. C.H.ESI, per, <u>Feichting Yenchiu</u>, 30 Apr 1966, pp 74-79. JFRS 46,060

Cultural Revolution Influences Industry, by Chi Yi-ch'i, 18 pp. CHINESE, per, <u>Fed-ch'ing Yueh-pao</u>, Vol 11, No 2, 1 Apr 1968, pp 63-71.
JPRS 45741

Test Operation and Cost Estimation on the Radioactive Waste Treatment Plant at Jaeri, by Sadahiro SAKATA, Masukuni ITO.

JAPANESE, rpt, JAERI 1048, Oct. 1963, pp 1-50.
AEC NSJ Tr-10

It was Decided that 1968-1970 Would Be Easy. JAPANESE, per, Rocket News, No 85, 1968, pp 1-2. DIA LN 732-68

Space Development Plan of Each Ministry for Fiscal Year 1968, 10 pp.

JAPANESE, per, Rocket News, No 85, 1968, pp 33-39.

DIA IN 732-68

Twenty Years of North Korean Economic Transformations: Kim Il-sung and the "Ch'ollima Drive Economy.

KOREAN, por, Sasangge, 27 Jun 1968, pp 180-192.

*ACSI J-5267

More Economic, Financial Lanagement Urged, 9 pp. VINTIALESD, per, Roc-tap, No 4, Apr 1968, pp 10-15. JPRS 45,611

daiphong Cooperative Improves Labor Productivity, by To Thion, 13 pp.
VIETNAMESE, per, <u>Hoc-tap</u>, No 4, Apr 1968, pp 30-37.
JPRS 45,611

Meet the Requirements of the New Situation, by Nguyen Iam, 6 pp.
VIETNAMESE, np, Ky-thuat Cong-nahiep Nhe, Jan 1968, pp 2-5.
JPRS 45817

Far East Political

The Present Day Northern Puppet and the Current Laneuvers and Tactics of the General Association of Korean Residents in Japan.

KOREAN, per, Sasangge, Lay 1966, pp 118-125.

*ACSI J-5270

Transformation in the Political System: Twenty Years of Stalinization, by Yang Ho-min. KORDAR, per, Sasangge, 27 Jun 1968, pp 168-179. *ACSI J-5266

Nghiem Xuan Yem Speaks at Emulation Conference, by Nghiem Xaun Yem, 9 pp. VIETNAMESE, np. Doc Lap, 8 Mar 1968, p 2. JPRS 45817

Fifth Congress of Hanoi Fatherland Front Held, 5 pp. VIET A.ESE, np. Hanoi Moi, 28 May 1968, p 3. JPRS 45,916

Commentary on Johnson's 31 March Speech, 8 pp. VETTAMESE, per, <u>Hoc-tap</u>, No 4, Apr 1968, pp 4-9. JPRS 45,611

Hew Laws Governing Counterrevolutionaries Declared, by Le Quoc Than, 9 pp. VIETNALESE, per, Hoc-tap, No 4, Apr 1968, pp 16-22.
JPRS 45,611

Distribution hust Be Fair, Rational, Democratic, by Tran Nguyen, 10 pp. VIETNALESE, per, Hoc-tap, No 4, Apr 1968, pp 46-52. JPRS 45,611

Party Activities Increase in Xuan Truong District by Nguyen Van Dat, 8 pp. VIETHALESE, per, <u>Hoc-tap</u>, No 4, Apr 1968, pp 59-63. JPRS 45,611

Phuc Son Party Branch Roaches the 'Four Good', by Le Hai Tra, 6 pp.
VIETNALESE, per, Hoc-tap, No 4, Apr 1968, pp 63-67.
JPRS 45,611

Decree on Counterrevolutionary Crimes, by Truong Chinh, 3 pp.
VIETIALESE, per, <u>Hoc-tap</u>, No 4, Apr 1968, pp 71-75.
JPRS 45,611

Far East Political (Contd)

Revolutionary Literature Flourishes, by Bac Dinh Giang, 10 pp.
VIETNAMESE, per, Hoc-tap, No 4, Apr 1968, pp 76-83.
JPRS 45,611

Cambodia's Firmness in its Neutrality, by Quang Thai, 6 pp.
VIETHAMESE, per, Hoc-tap, No 4, Apr 1968, pp 84-89.
JPRS 45.611

Yen Phu Produces Light for Combat and Study, by Vu Phong, 5 pp. VLOTHALESE, np, Nguoi Giao Vien Mhan Dan, 10 Mar 1968, p 8.
JPRS 45,916

Hoang Quoc Viet Gives May Day Speech on War, 11 pp. VIETNAMESE, np, <u>Nhan Dan</u>, 2 May 1968, p 2. JPRS 45817

Victory of Marxism-Leninism in Vietnam Discussed, 8 pp.
VIETNAMESE, np, Nhan Dan, 5 May 1968, p 3.
JPRS 45747

Speeches Given at 4th Session of National Assembly, 5 pp. VIETNAMESE, np. Man Dan, 28 May 1968, p 2. JPRS 45747

Ba To Uprising Against the Japanese Commemorated, 5 pp.
VIETNAMESE, np. Quan Doi Nhan Dan, 11 Mar 1968, p 1.
JPRS 45817

Military

Earth-Shaking Battle in Hue Described, 13 pp. VIETNAMESE, np. Mean Dan. 4 Mar 1968, p 2. JPRS 45739

May Offensive in South Vietnam Described, by Milfred Burchett, 11 pp. ITALIAN, np. Rinascita, 17 May 1968, pp 3-5. JPRS 4581?

Far East Sociological

Social and Cultural Trans-formations: Important Social and Cultural Policies of the North Korean Communist Party and Liental Posture of Present-day North Korean Compatriots.

KOREAN, per, Sasangge, Aug 1965, pp 218-228.
*ACSI J-5269

The Fate of Horth Korean Stage Artists: Present Conditions of North Korean Drama, Movie, Dancing and Musical Circles.

KOREAN, per, Sasangge, 27 Jun 1968, pp 193-217.
*ACSI J-5268

NVN's Educational Requirement Outlined, by Le-Liem, 10 pp. VIETNALESE, per, Hoc-tap, No 4, Apr 1968, pp 23-29.
JPRS 45,611

Que Phong District Makes Educational Advancements, by Nguyen Van Chinh, 10 pp. VIETNAMESE, per, Hoc-tap, No 4, Apr 1968, pp 53-58.
JPRS 45,611

Understand Five Basic Views in Educational Line, by Hoang Ngoc Di, 9 pp. VIETHALESE, per, Nguoi Giao Vien Nhan Dan, 10 har 1968, pp 2, 3, 6.
JPRS 45,916

Education Develops in Minh Binh Province, by Pham Ke, 5 pp.
VIETNAMESE, per, <u>Mhan Dan</u>, 31 May 1968, p 3.
JPRS 45,916

LATIN AMERICA

Economic

Batlle Emphasizes Need for Stopping Inflation, 5 pp. SPANISH, por, <u>Accion</u>, 26 June 1968, p 3. JPRS 46,062

Gains and Goals of Cuban Fisheries Cited, 7 pp. SPANISH, np. Granue, 20 May 1968, p 5. JPRS 45791

Latin America Economic (Contd)

BOOK TO REAL PROPERTY.

Currency and Import-Export Regulations Must be Changed, 8 pp.

SPANISH, np. Marcha, 10 May 1968, pp 7,21.

JPRS 45780

Opposition to Hydroelectric Plant Handover, 6 pp. SPARISH, np, Oiga, 21 June 1968, pp 10, 11, 29. JPRS 45,957

Ulloa's Plan Somefits Foreign Interests, 8 pp. SPARISH, np. Oiga, 28 June 1968, pp 4-8. JPRS 46,062

Proposed Import Tax on Paper Threatens Press, 5 pp. SPANISH, per, <u>La Prensa</u>, 2 June 1968, p 5. JPRS 45,868

Bolivia and the River Plate Economic Area, 8 pp. SPANISH, np. <u>Prensa Libre</u>, 12 May 1968, p 3. JPRS 45780

Prospects for Trade with East Germany Examined, 5 pp. SPARISH, np. El Tiempo, 16 June 1968, pp 11, 264 JPRS 45,943

Political

Revolutionary Movement in Latin America, by W. Vlieland, 12 pp. DUTCH, per, <u>Politick on Cultuur</u>, No 4, Apr 1968, pp 170-181.
JPRS 45788

Armed Conflict Eccessary to Resolve Crisis, 5 pp. 5 pp. FRANCH, per, <u>Domocratic Houvelte</u>, Apr/Lay 1968, pp 81-84.
JPRS 45,943

Dolgian Priest's Document Stirs Controversy, 5 pp.
5 pp.
PORTUGUESE, per, <u>Jornal do Brasil</u>, 17 June 1968, p 80.
JPR: 45,943

Latin America Political (Contd)

Some Aspects of Castroism, by Mario Busch, 12 pp. PORTUGUESE, np. <u>O Estado de Sao Faulo</u>, 12 May 1968, pp 113, 137; 19 May 1968, p 136.

JPRS 45780

Activities of Leading Officials in Cuba Reported, 5 pp. SPANISH, np. 2-23 May 1968.
JPRS 45791

Batlle Speaks on Uruguayan Political Situation, 7 pp. SPANISH, per, Accion, 27 June 1968, p 3. JPRS 46,062

Cuban and Nexican Revolutions Compared by Mexican Ambassador, by Fernando G. Campoamor, 9 pp. SPANISH, per, Bohamia, 17 May 1968, pp 54-57. JPRS 45,876

Registered Slates for June Elections, 7 pp. SPANISH, np, El Comercio, 14 May 1968, pp 1, 8.
JPRS 45748

Cornejo Chavez Gives His Views, 7 pp. SPANISH, mp. <u>El Comercio</u> (Sunday Supplement), 26 May 1968, pp 8-9.
JPRS 45,876

President Arosemena Interviewed by Guayaquil Paper, by Arosemena Gomez, 5 pp. SPARISH, np. El Comorcio, 9 June 1968, pp 1, 3. JFRS 45,957

Argentineans Lack Confidence in Government Policies, 12 pp. SPARISH, per, Correo de la Tardo, 4-10 June 1968, pp 10-14.

Experiences of Frontier Guard Forces Described, by Norberto Fuentes, 8 pp. SPANISH, per, Cuba, Dec 1967, pp 39-42. JPRS 45780

Chamano to Replace Che Guevara, by Raissando Valecillos, 6 pp.

SPANISH.per, <u>Klite</u>, 18 May 1968, pp 48-49,73.

JPRS 45780

The same of the same

Latin America
Political (Contd)

Independents Seek Industrialist for Presidency, by David Pachano, 8 pp. iPAGISH, per, Elite, 29 June 1968, pp 24-27. IFIC 45,957

Chile's Communist Party Plans Road to Powor, by Luis Harnandos Parker, 6 pp. 3PAHISH, por, <u>reilla</u>, 5-11 June 1968, pp 10-13. JPRS 45,95?

Reports on Activities of Two Political Forces, 5 pp.
SPANISH, per, Ercilla, 5-11 June 1968, pp 14-15.
JPRS 45,868

Far Command Discusses Internal Differences, 8 pp. SPANISH, per, <u>FAR</u>, No 30, Mar 1968, pp 1-6. JPRS 45748

Achievements in Operation Bay of Pigs, 6 pp. SPANISH, np. Grange, 4 May 1968, p 3. JPRS 45780

Revolutionary Leftist Rovement Views on Electoral Process, 5 pp.
SPARISH, per, <u>Izquierda</u>, Apr 1968, Special Supplement, pp 1-4.
JPR: 45,875

Incidents in Cane Workers Insurrection Recounted, by Hauricio Rosencof, 6 pp. SPANISH, np. Harchs, 10 May 1968, pp 11, 20. JPRS 45780

Interview with Dr. Andres F. Cordova, 9 pp. SPANISH, np. Hanana, 16 May 1968, pp 3, 5. JPRS 45791

"Oppositionist" Labor Leader Assesses Situation, by Marcos Minocur, 6 pp. SPANISH, np. Marchs, 20 May 1968, p 20. JPBS 45791

Student Discontent and Strikes Analysed, by Carlos Ganales, 6 pp. SPATISH, sp. <u>Larobe</u>, 7 June 1968, pp 3-9. JPPS 45,918

Leftist Priest Goos into Hiding, by Carlos laria Gutierres, 11 pp. SPANISH, np. laroha, 7 June 1968, pp 10, 11, 20, JPRS 45,918

Latin America
Political (Contd)

Story of Sugar Workers Rebellion Recounted, by Eauricio Rosencof, 5 pp. SPANISH, np. <u>Marcha</u>, 7 June 1968, p 13. JPRS 45,918

Students Protest Against 'The Establishment', by G. P. H., 6 pp.
SPAHISH, np, <u>Larcha</u>, 14 June 1968, pp 8-9.
JPRS 45,918

Argentina's Quest for an Ideology Continues, by Carlos Maria Gutierrez, 6 pp. SPANISH, np. Farcha, 14 June 1968, p 19. JPRS 45,918

Single Leftist Opposition Front Considered, by Carlos Faria Gutierrez, Jose Fanuel Quijeno, 12 pp.
SPANISH, np. Farcha, 28 June 1968, pp 8, 9, 20.
UFRS 46,062

Communist Votes hay Be Crucial for hEP's Success, by Rafael Santiago, 7 pp. SPALISH, per, Homento, 9 June 1968, pp 22-25.
JPRS 45,875

Student Disturbances over University Reform Anniversary, 7 pp.

SPALISH, np. La Dacton, 13 June 1960, pp 1, 6.

JPRS 45,943

Guerrilla Fighter Recalls Skerra Faestra Compaign, by Jose Pardo Llada, 6 pp. SPANISH, np. Occidente, 13 June 1960, p 16. SPAN 45,943

Fourteen Young Argentine Guerrillas Tried, by J. P., 11 pp. SFAMISH, per, Oclae, Feb 1968, pp 21-28. JFHS 46,062

Hew Right-Hing Coalition Cabinet Criticized, 5 pp. 5 pp. SPANISH, np. Oira, 14 June 1968, pp C-9, JPHS 45,918

The Nature of the Latin American Left, by Leon Souttohner, 31 pp. 874MISH, per, Presentanto Critico, Jan 1968, pp 151-163.
JFRS 45748

Christian Democratic Leader Intervioued, 5 pp. SPAHISH, np. Plan, 31 May 1968, p 3. JPRS 45,875

Latin America Political (Contd)

Moscow Conference Preparations Discussed, by Carlos Castelgrande, 5 pp.
SPANISH, np, El Popular, 6 May 1968, p 2.
JPRS 45780

Young Workers Conference Passes Resolutions, 6 pp. SPANISH, np, El Popular, 6 May 1968, p 12. JPRS 45780

Bill of Rights of Working Youth, 5 pp. SPANISH, np. El Popular, 7 May 1968, p 7. JPRS 45748

Speech by Soviet Youth Leader, by Vladimir Vesenskiy, 5 pp. SPANISH, np, <u>El Popular</u>, 13 May 1968, p 2. JPRS 45791

Loftist Liberation Front Students Urge Worker-Student Unity, 5 pp. SPANISH, np. El Popular, 25 May 1968, p 5. JPRS 45,876

Arismendi's June 1 Speech to State Workers, by Rodney Arismendi, 21 pp. SPANISH, np, <u>El Popular</u>, 7 June 1968, pp 5-6. JPRS 45,918

President's Annual Vessage to Congress, 7 pp. SPANISH, np. Prensa Libre, 17 June 1968, pp 15, 66.
JPRS 45,943

Ecuadoran CP Active in Loja, 5 pp. SPANISH, np. <u>El Pueblo</u>, 11 May 1968, pp 5,8. JPRS 45780

Slection Fraud Claimed by Labor Federation, by Leonidae Cordova, 5 pp. SPACISM, np. El Pueblo, 22 June 1968, p 8. JPRS 46,062

PCE Central Committee Issues Policy Statement, 16 pm.

SPAKISK, np. <u>El Pueblo</u>, 29 June 1968, pp 1-6.
JPRS 16.062

Senator in Exile Analyzes Chilean Parliament, by Carlos Altamirano, 17 pp. SPANTSH, np. Punto Final (Supplement), 21 May 1968, pp 1-8.

JPRS 45,875

Latin America Political (Contd)

Socialist Youth Reets to Chart its Course, by Augusto Carmona A, 6 pp. SPANISH, np. <u>Punto Final</u>, 21 May 1968, pp 12-13. JPRS 45.868

Dialogue Between Catholics and Communists, 10 pp. SPANISH, np, El Siglo, 30 Apr-1 May 1968, p 8. JPRS 45748

Luis Corvalan Expounds the Communist Position, by Luis Corvalan, 8 pp. SPANISH, np. El Siglo. 30 Apr-1 May 1968, p 9. JPRS 45748

Chilean CP Domands Unity of Popular Forces, 7 pp. SPANISH, np. El Siglo, 4 May 1968, p 6. JPRS 45748

Latin American CP Representatives at Moscow Conference, by Rolando Carrasco, 5 pp. SPANISH, np, El Siglo, 5 May 1968, pp 10-11. JPRS 45748

Trade Union Organs Consure Lleras' Resignation Move, by Fernando Zamorano, 6 pp. SPANISH, np. <u>El Siglo</u>, 9 June 1968, p 3. JPR9 1/5,957

Unions Unite in Opposition to Government, by Elias Mantus, 5 pp. SPANISH, np. <u>El Siglo</u>, 12 June 1968, p 8. JPRS 45,868

CP Publishes Candidate List for March Elections, 5 pp. SPANISH, np. <u>Ultima Hora</u>, 2 June 1968, p 3. JPRS 45.868

Vanguardia Calls for Responsible Revolution, 5 pp. SPANISH, np. Vanguardia, 4 June 1968, p 5. JPRS 45.868

Party Promotes Political Work in Edlitary School, by Rosendo Gutiorrez, 5 pp. SPARISH, np. <u>Vorde Olivo</u>, 2 June 1968, pp 10-12. JPRS 46,062

Latin America Military

Wartime Coperimental Civil Defense Plan Tested, by Mugo Corrons Davila, 5 pp. SPANISH, per, Bohemia, 7 June 1968, pp 14-17. JPRS 45.918

Civil Defense and Production Plans Combined, 16 pp. SPARISH, per, Bohemia, 21 June 19 8, pp. 29-45, 90. JPRS 166,062

Chilean National Defense Policy Discussed, 5 pp. SPAUISH, per, <u>Breilla</u>, 22-28 May 1968, pp 15-17. JPRS 45,868

Guerrilla-Army Encounter Described, 5 pp. ITALIAN, per, <u>Vie Nuove</u>, 25 Apr 1968, pp 65-66. JPRS 45,868

Geography

Perocao: Paredise in the East, by Fernando Richard, 5 pp.
PORTUGUESE, per, <u>O Cruseiro</u>, 6 Apr 1968, pp 56-65.
JPRS 45780

Sociological

Education Minister Addresses Future Teachers, 6 pp.
ENGLISH, np. Granma, 9 June 1968, p 9.
JPRS 45,875

Importance of Nature in Development of Peru, by Olivier Dollfus, 21 pp. FRENCH, per, Annales de Coorraphie, Nov-Dec 1967, pp 714-735.
JPRS 45,876

Abbreviations in the Latin American Press, 119 pp. SPANISH, rpt, Abbreviations in the Latin American Press.
JERE 45,955

Latin America Sociological (Contd)

Apartment Buildings in Havana Reviewed, by Vicente Cubillas, 6 pp. SPANISH, per, Bohemia, 24 Pay 1968, pp 74-77, 90. JPRS 45,918

Youth Challenges Obsclescence of University System, by Hernan Millas, Armando Herrera, 10 pp. SPANISH, per, <u>Ercilla</u>, 5-11 June 1968, pp 34-38. JPRS 45,868

Urgent Need for Thorough Church Reorganization Stressed, by Jose Comblin, 19 pp. PORTUGUESE, np. 0 Estado do Sao Paulo, 14 June 1968, p 5; 15 June 1968, p 5; 16 June 1968, pp 6-7.

JERG 45,943

Teaching and Learning at Work, by Orlando Fundora, 12 pp.
SPANISH, np. Granma, 4 May 1968, pp 4-5.
JPRS 45780

Riguel Martin Discussed Function of Cuban Labor Unions, by Miguel Martin, 9 pp. SPANISH, np. Granma, 6 June 1968, p 2. JPRS 45,875

Most Important Specialties to be Studied Listed, 23 pp. SPANISH, np. <u>Juventud Rebelde</u>, 29 Apr 1968, pp 1-15.
JPRS 45748

Sugar Workers Captured in Bank Incident, by Mauricio Rosencof, 5 pp. SPANISH, np. Marcha, 17 May 1968, p 8. JPRS 45780

Division Among Workers Unions, by Cerlos Maria Gutierres, 6 pp. SPANISH, np. Marcha, 17 May 1968, pp 21,23. JPRS 45780

Jesuit Says Christians sust be Revolutionary, by Gonzale Arroyo, 10 pp. EPANISH, per, <u>Mensale</u>, No 167, Har-Apr 1968, pp 78-83. JPRS 45,876

Latin American Echoes of 'Fopulorum Progressio', 9 pp.
SPANISH, per, lensaje, No 167, Par-Apr 1968, pp 127-130.
JPRS 45,876

Latin America Sociological (Contd)

Chilean Farm Labor Unionism Today, by Gonzalo Arroyo, 14 pp. SPANISH, per, <u>Mensaje</u>, May 1968, pp 164-169. JPRS 45,876

Latin American Jesuits Urge Social Change, 7 pp. SPANISH, per, <u>Kensaje</u>, June 1968, pp 258-260. JFRS 45,957

Proposed Law on Sugar Beet and Sugar Cane Workers, 5 pp. SPANISH, np. El Popular, 7 May 1968, p 4. JPRS 45748

Eugenio Gonzalez Analyzes University Crisis, by Eugenio Gonzalez, 7 pp. SPANISH, np. Ultima Hora, 1 June 1968, pp 2-3. JPRS 45,95?

WORLD WIDE

Political

Call for a Democratic Communist World Conference, by J. Courtois, 5 pp. FRENCH, np. <u>Unir-Dobat</u>, No 16, 10 Apr 1968, pp 6-7. JFRS 45773 Scientific Aeronautics (Contd)

SCIENTIFIC

Aeronautics

Testing of Jet Aircraft Engines, by G. M. Gorbunov. RUSSIAN, bk, pp 96-256. *FTD-MT-24-236-68

Calculation of the Angles of Dommash of Flow Behind Rectangular Wings of Small Aspect Ratio at Subsonic Velocities According to Non-Linear Theory, by S. D. Ermolenko, M. T. Barinov. RUSSIAN, per, <u>Isv. VUZ Aviats Tekh</u>, No 3, 1966, pp 3-10. NIL Ref: 5207 (1247)

Problem of Energy Transfer in Centrifugal and Mixed-Flow Pumps by Circulation and Coriolis Forces, by B. V. Ovsyannikov.

RUSSIAN, per, <u>Izvestiya Vysshikh Ushcbnykh</u>
Zaveneniy Aviatsionnaya Tekhnika, No 4, 1966, pp 107-113.

*FTD-HT-23-683-68

Ikar-67 Flexible Glider, by S. Pilipets. RUSSIAN, per, <u>Krylya Rodiny</u>, No 1, 1968, p 19. *FTD-HT-23-734-68

Aerodynamic Theory of Jets and Flames, by L. A. Vulis.
RUSSIAN, rpt, Nauchno-Tekhnicheskoye Obshchestvo
Energeticheskoy Promyshlennosti. Tsentral nove
Pravlenive. Sekusive Gasifikatsii. Teriya 1
Praktika Sahiganiya Gasa, Vol 3, 1967, pp 5-19.
*FTD-HT-24-274-68

Experimental Study of the Oscillatory Process in Cylindrical Shells Excited by Instantaneous Evolution of Energy, by E. A. Limberg. RUSSIAN, per, Samoletostroyeniye i Tekhnika Vozdushnogo Flota, Ro 8, 1966, pp 133-141.

*FTD-HT-23-651-68

Shortened Take-Off of Jct Aircraft, by ... K. Liseytsev.
RUSSIAH, por, Samoletostroyenive i Tekhnika
Vozdushnogo Flota, No 10, 1967, pp 3-13.
*FTD-HT-23-710-68

Synthesis of a Variable Structure Regulator for Facilitating the Lateral Stability of an Aircraft, by N. A. Permant, N. E. Gritsenko, 19 pp. RUSSIAN, per, <u>Sistemy s Peremennov Strukturov i ikh Primenonive v Zadachakh Avtoratizatsii Polota</u>, 1968, pp 297-311.

JPRS 45,964

Total Asrodynamic Characteristics of a Thick Wing in Unsteady Motion, by V. V. Yakovenko, 6 pp.
RUSSIAN, per, Trudy, Leningrad, Politekhnicheskiy Institut, No 265, 1966, pp 123-128, Pl00149168-V FTD-MT-24-266-67

Research on the Wake Structure Behind a Body at Supersonic Speeds, by Yu. O. Panov. UKRAINIAN, rpt, Kylv. Universytet: Sbirnyk Naukovykh Prats" Aspirantiv. FizykoMatematychini Nauki, 1963, pp 155-165.

*FTD-HT-23-723-68C

German Aviation and Space Research Report 66-75 Control and Stability of Rotary Wing Aircraft, Part III, Longitudiual Motion, by W. Just. GERMAN, rpt, Deutsche Luft-And Raumfahrt 66-75. *ACSI J-5176 *FSTC-HT-23-252-68

The Beginning of Soviet Jet Aircraft Construction. Fifty Years of Soviet Power. GERMAN, per, Militartechnik, No 9, 1967, pp 391-392. *FTD-HT-23-647-68

Computation of the Stability Derivatives for the Pitching Motions of Delta Wings in Subsonic Flow, by R. Gothert, H. Otto.

GERMAN, per, Zeit fur Flugwissenschaften, Vol 15, No 10, 1967, pp 363-368.

P911200168-V

AEC-SC-T-68-1528

Agriculture

Fauna of the USSR. Diptera. Phlebotomidae (Sand-flies), by P. P. Perfil'ev.
RUSSIAN, bk, Akademiva Nauk SSSR. Zoologicheskii
Institut, Noviva Seviva No 93, Noskva, Isdatel'
stvo "Nauka", 1966, 390 pp.
•CFSTI TT 68-50341

The Germinative Energy and Capacity of Seeds of Querous Rubra and Juglans Regia as Related to Their Position in the Soil, by G. Kh. Holotkovskit. RUSSIAN, per, Noskva, Doklady, Akademii Hauk SSSR, Vol 102, No 3, 1955, pp 637-639. •CFSTI TT 68-50428

Scientific Agriculture (Contd)

Uzbek Vegetable Production Specialization Urged, by Aleksandr Komarovskiy, 5 pp. RUSSIAN, np, <u>Ekonomicheskaya Gazeta</u>, No 19, Nay 1968, p 3. JPRS 45,610

Report on the Growth of Grain Cultivation, 8 pp. RUSSIAN, per, Ekonomika Sol'skogo Khozyaystva, No 6, 1968, pp 1-7.
JPRS 46,053

Evaporation from Bogs, Depending on Climate, Drainage and Cultivation, by A. I. Ivitskii, 6 pp. RUSSIAN, per, Gidrotekhnika i Melioratsiya, No 1/2, 1938, pp 62-66.
CFSTI TT 67-51385

Drainage Norms for Peat-Bog Soils, by S. G. Skoropanov, 8 pp. RUSSIAN, per, Gidrotekhnika i Melioratsiya, No 1, 1962, pp 34-40. CFSTI TT 67-51324

Experiment in Draining a Bog by Widely Spaced Deep Canals, by E. S. Dzektser, 7 pp. RUSSIAN, per, Gidrotekhnika i Melioratsiya, No 3, 1962, pp 23-28. CFSTI TT 67-51326

Timberline Dynamics in the Southern Sikhote Alin Mountains, by M. V. Ponomarenko, 11 pp. RUSSIAN, per, <u>Isvestiva Sibirskogo Otdeleniva Akademii Nauk SSSR</u>, No 5, 1961, pp 100-109. CFSTI TT 67-51312

For the Further Uplift of Agriculture, 14 pp. RUSSIAI, per, Kommunist Ukrainy, No 3, 1968, pp 7-15. JPRS 45,608

Forest Soil Science, by N. P. Remesov, P. S. Pogrebnysk. RUSSIAli, per, Hoskva, Lesnava Promyshlennosti, 1965, 321 pp. •CFSTI TT 68-50367

and the second section is the second of the

Questions of the Intensification of Swine Breeding, by V. Klynykov, 9 pp.

RUSSIA:, por, iszhdunarodnyy Sol'skokhosynystyennyy
Zhurnal, io 2, Feb 1968, pp 35-39.

JPRS 45,603

Z. Radayeva, 5 pp.

RUSSIAN, np. Sovetskaya Litva, 15 lay 1968, pp 2.

JPRS 45,608

Scientific Agriculture (Contd)

Automatization of the Method of Heat Treatment of Poultry, by A. Vasin RUSSIAN, per, Myasnaya Industriya, No 4, 1967, pp 11-13. NLL Ref: 3630.48 (124)

Kazakhstan Works to Improve Agricultural Chemistry, by T. Temirbekov, T. Bogdanova, 8 pp. RUSSIAN, per, Harodnoye Khogyaystvo Kasakhstana, No 3, 1968, pp 44-47.
JPRS 45762

Wilting Point of Certain Agricultural Crops on Peat and Peaty-Sod Soils in the Valley of the Yakhroma River, by K. N. Shishkov, L. L. Shishov, RUSSIAN, per, Pochvovedenie i Agrokhimiya -Izvestiya Timiryazevskoi Sel'skokhozyaistvennoi Akademii, Vol 6, No 49, 1962, pp 69-82. CFSTI TT 67-51303

The Problems and Tasks of Rice Cultivation in Kazakhstan, by K. Iksanov, 5 pp. RUSSIAN, np., <u>Pravda</u>, 24 Apr 1968, p 2. JPRS 45,610

Productive Utilization of Farm Land Analyzed, by V. Sotnikov, 8 pp.
RUSSIAN, per, Sel'skaya Nev', No 5, 1968, pp 13-15. JPRS 46.053

Subsidiary Enterprises of a Kolkhoz, by V. Plyutinskiy, I. Sokolov, 9 pp. RUSSIAN, np. Sel'skaya Zhizn, 27 Apr 1968, p 3. JPRS 45,610

Sugar Boet Cultivation Reviewed, 5 pp. RUSSIAN, np. Sel'skaya Zhizn', 28 May 1968, p 1. JPRS 45.871

Grain Growers of Virgin Lands Compete, 5 pp. RUSSIAN, np. Sel skoy Khozyaystvo Kasakhstana, No 5, 1968, pp 4-5. JPRS 45,862

Shortcomings in the Transportation of Cattle to the leat Combines by Motor Vehicle, by

Scientific Agriculture (Contd)

Production of New Agricultural Equipment, by V. A. Korbut, G. A. Mikolayev, 6 pp. RUSSIAN, per, <u>Traktory i Sel*khozmashiny</u>, No 5, Lay 1968, pp 1-2.

JPRS 46,056

Importance of Trace Elements in Chernozem Soils
Under Conditions of Dry Farming, and their
Influence on the Physiological Processes Determining JPRS 45,940
the Drought- and Heat-Resistance of Plants, by
M. Ya. Shkol'nik, N. A. Fakarova, 53 pp.
RUSSIAN, per, Trudy Botanicheskogo Instituta im.
V. L. Komarova, Akademii Nauk SSSR, Series IV,
No 12, 1958, pp 23-73.
CFSTI Tr 67-51301

Socialist Agriculture on the Fiftieth Anniversary of the Great October Revolution, by V. V. Natskevich, 16 pp.
RUSSIAN, per, Vestnik Sel'skokhozyaystvennov Nauki, No 3 (138), Nar 1968, pp 1-11.
JPRS 45.608

Livestock Raising Plans Stride Ahead, by A. Lutsenko, 16 pp. RUSSIAN, per, <u>Vestnik Statistiki</u>, No 4, 1968, pp 10-20. JPRS 45,610

Reform and Development of Cost Accounting in Agriculture, by A. Yemel'yanov, 14 pp. RUSSIAN, per. Veprosy Skonomiki, No 5, 1968, pp 47-57, JPRS 46,053

Valuation Aids in Estonian SSR Land Utilization, by N. Bronshteyn, 15 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 5, hay 1968, pp 102-112.
JPRS 45,862

Higher State Agricultural Institute Trains Cadres, by Stavri Harjani, Skender Fricti, 5 pp. ALEALIAN, np. Zeri i Popullit, 24 May 1968, p 3. JFRS 45,866

Stream Networks and Brainage are Nain Trends in Salt Soil Amelioration in Rice Culture of China Plains, by MANG Taum-chin, LIU Men-cheng, 15 pp. CHINESE, per, Tiu-jang, Mar 1961, pp 1-7.

JPRS 45,961

Service of the servic

Scientific
Agriculture (Contd)

Devolopment of Edaphogeography Discussed, by LIU Pfei-tfung, Wang Hua-tung, 10 pp. CHINESE, per, Ttu-jang, No 5-1961, May 1961, pp 1-5.
JPRS 45,948

Frague Releases 1967 Agriculture Results, 10 pp. CZECH, per, Zemedelske Moviny, 30 May 1968, Special Supplement.
JPRS 45.940

Report of Tour of Havana Green Belt, 9 pp. ENGLISH, np, Granna, 2 June 1968, p 5. JPRS 45,875

Diplomats, Businessmen Tour Havana Green Belt, 7 pp.
ENGLISH, np. Granma, 2 June 1968, p 4.
JPRS 45,875

Wiegand Evaporators for the Dairy Industry GERMAN, rpt, Pub. 1967, 11 pp. NLL Ref: 9022.4 (68/9)

Desalting Whey by Means of a Selective Membrane Process GERMAN, per, Molkerei-und Kaserei-Zeitung, Vol 18, No 6, 1967, pp 175-177.
NLL Ref: 5828.4F (7125)

Extraction of Manioc Root, by A. Fullgrabe GERMAN, per, Starke, Vol 8, No 2, 1956, pp 27-37.
NLL Ref: 5828.4F (12717)

Opposition of <u>Gelba Truncatula</u> to Sodiumpentachlorophenolate, by K. Enig and D. Diiwel OEFMAN, per, <u>Zeit. fur Naturforsch</u>, Vol 166, 1960, pp 134-151. NLL Ref: 5828.4F (12723)

Combatting Plant Over-Growth in Heated Waters and the Problems of Fishery Management in These, by K. Opussynski
POLISH, per, Gospodarkawodna, Vol 24, No 6, 1964, pp 219-221.
MLI Ref: 5028.4F (12655)

Scientific Agriculture (Contd)

Agricultural Circles 1967 Situation Discussed, by J. Majdak, S. Gasiorowski, 12 pp. POLISH, per, Nowe Drogi, June 1968, pp 91-99. JPRS 45,945

Rumanian Agriculture Faces Two Major Problems, by N. Belli, 14 pp. RUMANIAN, per, <u>Problems Economice</u>, May 1968, pp 40-51.
JPRS 46.076

Rumanian Forestry Enterprises Criticized, by Dan Mateescu, Nistor Tuicu, 5 pp. RUMANIAN, np. Scinteia, No 7724, 5 June 1968, pp 1, 3. JPRS 45,940

Number of Livestock at the Beginning of 1968, by Ugljesa Pavlovic, 6 pp. SERBO-CROATIAN, rpt, Ekonomika Poljoprivrede, May 1968, pp 365-367.
JPRS 45735

Significant Problems Exist in Sheep-Raising, by Georgi Kusigerski, 7 pp. SERBO-CROATIAN, per, <u>Glasnik Poljoprivrede 1 Zadrugarstva</u>, No 5, May 1968, pp 39-43. JPRS 45,917

Problems Arise in Fertilizer Consumption, by Djuro Regan, 29 pp. SERBO-CROATIAN, per, Ekonomika Poljoprivrede, Nay 1968, pp 325-341.

JPRS 45,864

Postwar Agricultural Education Surveyed, by Ethailo Sunjevaric, Petar Erdjenovic, 10 pp. SEREO-CROATIAN, per, Poljoprivreda, Apr 1968, pp 22-29.

JPRS 46,061

Agrometeorology Grows as Important Science, my Branko Ratkovic, 7 pp. SER.O-CROATIAN, por, Poljoprivreda, Apr 1968, pp 54-58.
JPRS 46,063

Labor Productivity of Agricultural Combines and Socialised Farms in Yugoslavia and of the Agriculture in Other Countries, by Slobodan Sutio, 16 pp.
SERBO-CROATIAN, rpt, Produktivnost, Apr 1968, pp 248-252.
JPRS 45735

Scientific Agriculture (Contd)

Party Develops New Sources of Neat in Holguin, by Rafael Sanchez Lalebret, 5 pp. SPANISH, per, Bohemia, 21 June 1968, pp 4-9. JPRS 46,062

Isle of Pines Agricultural Program Described, by Gonzalez Bermejo, 10 pp. SPANISH, per, <u>Cuba</u>, way 1968, pp 21-23. JPRS 45,943

Cuban Tobacco Industry Production Figures Given, 6 pp.
SPANISH, np, Granma, 18 Fay 1968, p 5.
JPRS 45,943

Rain Ends Long Drought, Promises Good Crops, 5 pp. SPANISH, np. Granma, 19 June 1968, p 5. JPRS 45,918

Figures Released on Oriente Rice Plan, 5 pp. SPANISH, np, <u>El Fundo</u>, 31 Fay 1968, p 4. JPRS 45,868

Implementation of Grain Task Emphasized, by To Duy, 12 pp.
VIETHALESE, per, Hoc-tap, No 4, Apr 1968, pp 38-45.
JPRS 45.611

Supervisory Problems in Agriculture Discussed, 10 pp. VIETNAMUSE, per, <u>Thos Hoc By Thust House Hebiep</u>, No 1, Jan 1968, pp 4-5. JPRS 45617

Grow Seebania for Use as Fertiliser, by Bui Buy Dap, 9 pp. VIETNAMESE, per, Khoa Hoc My Thuat None Nebise, No 1, Jan 1968, pp 8-11. JPMS 45817

Fertiliser Production Movement Launched, 5 pp. VIETNAMESE, np. <u>Thes Hoc Ky Thust Mong Nebter</u>, 3 Nar 1968, p 4.
JPRS 45747

Better Vegetable-Growing Methods Advocated, by Duong Hong Hien, 5 pp. VINTMAMSS, np. When-Dan, 8 May 1968, p 2. JPRS 45817

Scientific Agriculture (Contd)

Agriculture Minister Calls for Revolutionary Zeal, by Nguyen Van Loc, 8 pp. VIETNAMESE, np. Nhan Dan, 17 May 1968, p 2. JPRS 45739

Prepare to Plant Tenth-Month Rice on Schedule, by Nguyen Kien, 5 pp. VIETNAMESE, np. Mban Dan, 18 May 1968, p 2. JPRS 45817

Work to Attain Three Objectives in Agriculture, by Phan Quang, 14 pp.
VIETNAMESE, np. Nhan Dan, 22, 24, 25 and 28 May 1968.
JPRS 4581?

Expand Three Objectives in Agriculture, by Hong Danh, 8 pp.
VIETNAMESE, np. <u>Tin Tuc Hoat Dong Khoa Hoe</u>, No 2, Feb 1968, p 7.
JPRS 45817

Build and Use Small Agricultural Machinery, 12 pp. VIETNAMESE, per, <u>Tin Tuc Hoat Dong Khoa Hoc</u>, No 2, Feb 1968, p 12.

JPRS 45817

Astronomy & Astrophysics

Spectrophotomstry of Lunar Formations, by A. N. Sergeyeva. 18 pp. RUSSIAN, bk, Akademiya Nauk SSSR Komissiva Po Pisiki Planet Isvestiva, 1959, pp 59-66. P200170068 RSIC-797

Astrophysical Phenomena and Radiocarbon, by
B. P. Konstantinov, G. Ye. Kocharov.
RUSSIAN, rpt, Akademiya Nauk SSSR, Ord. Lenina
Piziko-Technicheskiy Institut Imeni A. F. Ioffe,
Leningrad, 1967.
Sci Tech Info Facility
ST-ACH-IGA-10725

Photometric Investigations of the Lunar Surface, by V. G. Fesenkov, 21 pp. RUSSIAN, per, Astronomicheskiy Zhurnal, No S, 1929, pp 219-234. P200148668 RSIC-796 Scientific Astrophysics (Contd)

The Intensity of Coronal Emission Lines As An Index of Solar Corpuscular Radiation, by M. N. Gnevysev. RUSSIAN, per, <u>Astronomicheskii Zhurnal</u>, Vol 42, No 5, 1965, pp 992-995. NLL Ref: 5828.4F (7136)

The Relationship between Proton Flares and the Corona in the 11-Year Cycle, by M. N. Gnevysev and L. Krivskii RUSSIAN, per, Astronomicheskii Zhurnal, Vol 43, No 2, 1966, pp 385-389.
NIL Ref: 5828.4F (7130)

On the Nature of Light Rays on the Moon, by Yu. N. Lipskiy, V. V. Shevchenko.

RUSSIAN, per, <u>Astronomicheskiy Zhurnal</u>, Vol 45, No 2, 1968, pp 389-398. P910177668-V

Sci Tech Info Facility

ST-LPS-IS-10722

Photographic Observation of Celestial Bodies, by A. N. Deych, 7 pp. RUSSIAN, rpt, <u>Truck 17-y Astrometricheskoy Konfer-entsii SSSR</u>, 1967, pp 19-24. JPRS 45787

Determination of Orientation Elements for Faint Star Catalogue, by V. I. Orel'skaya, 15 pp. RUSSIAN, rpt, <u>Trudy 17-y Astrometricheskoy Konferentsii SSSR</u>, 1967, pp 24-34.

JPRS 45787

Variation of Cosmic Rays and Problems of Solar-Terrestrail Physics, by L. I. Dorman. RUSSIAN, per, Vestnik Akademii Nauk SSSR, Vol 4, Apr 1968, pp 51-54. P910193268 Sci Tech Info Facility ST-SP-CR-RAD-10726

Gravitational Collapse of a Neutron Star, ITALIAN, rpt, Internal Report No 66/4. 25 pp. ABC UCRL-Trans-10206

Astrophysical Developments in Rumania, by Calin Popovici, 6 pp.
RUMANIAN, per, <u>Progressle Stiints</u>, Har 1968, pp 99-101.
JPRS 45755

Scientific Astrophysics (Contd)

Measurement of the Neutron Flux During the Solar Eclipse on November 12, 1966, by A. A. Cicchini, A. N. Simionati de Fritz.

SPANISH, rpt, Paper Presented at the International Solar Eclipse Symposium, Brazil, Feb 5-9, 1968, 10 pp. P911200568-V

AEC-SC-T-68-1516

Atmospheric Sciences

Climatological Aspects of Investigations of Pollution of the Atmosphere by Industrial Waste Products, by M. E. Berlyand.
RUSSIAN, rpt, Contemporary Problems of Climatology, 1966, pp 280-291.
NIL Ref: 5828.4F (7112)

Table of the Standard Atmosphere. State Standard hhol-6h.
RUSSIAN, per, GOST hhol-6h. Tablitsa Standartnoy
Atmosfery. Izdaniye Ofitsialnoye, Izdatelstvo
Standartov, 196h.
#TD-HT-23-72h-68

Atlas of Aeroclimatological Characteristics of Temperature, Density and Relative Geopotential Over the Northern Hemisphere, by I. V. Hanevskaya.

HUSSIAN, per, Izd. Moscow, Nauch. Issled Inst. Aeroklim, 1964

NLL Ref: 5828.4F (7151)

Aeroclimatological Reference Book, by I. G. Guterman RUSSIAN, per, <u>Izd. Moscow Nauch. Issled. Inst.</u> <u>Aeroklim</u>, 1965. NLL Ref 5828.4F (7155)

Weather Conditions and Air Pollution in Odessa, by N. N. Akimovich and L. A. Ramenskii RUSSIAN, per, <u>Isv. AN SSSR Ser. Geograf</u>, No 5, 1966, pp 48-51.
NLL Ref: 5828.4F (7152)

Long-Period and Seasonal Wariability of the Geographical Position of the Iceland Atmospheric Pressure Minimum, by R. V. Abremov. RUBSIAM, per, <u>Inv Vees Geogr Chehoh</u>, Vol 98, No 4, 1966, pp 317-325.

MIL Ref: 9022.551 (498 M)

Scientific Atmospheric Sciences (Contd)

Evaluation of Light Depolarization by Turbulent Inhomogeneities of the Atmosphere, by V. I. Tatarskiy.
RUSSIAN, per, IVUZ. Radiofizika, Vol 10, No 12, 1967, pp 1762-1765.
#TD-HT-23-736-68

On Climatic Normals and the Optimum Period of Observation, by M. V. Zavarina, RUSSIAN, per, <u>Meteorologiva i Gidrologiva</u>, No 2, 1966, pp 44-47.
NLL Ref: 9022.551 (493 M)

On the Variability of the Height of the Upper Boundary of Fog and Low Cloud, by F. Ta. Klinov. RUSSIAN, per, <u>Meteorologiya i Gidrologiya</u>, No 8, 1966, pp 23-28. NLL Ref: 5828.4F (5990)

Features of the Circulation of the Atmosphere of the Northern and Southern Hemispheres with Large Pressure Anomalies in the Northern Hemisphere in 1955-1959, by D. I. Stehnovskii. RUSSIAN, per, Mesduw Geofis Kon Met Issled, No 11, 1966, pp 126-157.

NIL Ref: 9022.551 (494 M)

On the Influence of the 11-Year Cycle of Solar Activity on the Atmospheric Circulation, by V. A. Beljazo
RUSSIAN, per, <u>Probl. Arkt. i Antarkt</u>, Vol 26, 1967, pp 29-34.
NLL Ref: 5828.4F (7116)

Winds in the Vicinity of the Rybinsk Reservoir, by L. A. Gushchina. RIBSIAN, rpt, <u>Rybinsk</u>, <u>Gidromsteorologicheekava</u> <u>Cheervatoriva</u>, <u>Shornik Rabot</u>, <u>Gidromsteorologicheekiv</u> <u>Reshim Verkhne-Volkhekikh Vodokhanilishoh</u>, No 3, 1966, pp 109-159. *FTD-NG-24-261-68

Handbook on the Climate of the USSR, Part III, Winds.
RUSSIAN, bk, <u>Sprayochnik po Klimatu SSSR</u>,
<u>Krasnovaskiv Kray i Tuvinakaya ASSR</u>, Vol 21,
Part 3, 1967, 354 pp.
*FTD-MT-24-283-68

Variations of Climate Over the Ressian Flain During the Historical Period, by S. I. Kostin. RUBSIAN, per. Tr Glav Geofia Cheery, Vol 181, 1965, pp 56-74. HIL Ref: 5826.47 (5992)

Scientific Atmospheric Sciences (Contd)

On the Problem of Meteorological Conditions Affecting the Pollution of Air over Towns, by R. L. Son'kin RUSSIAN, per, Tr. Glav. geofiz. observ., Vol 185, 1966, pp 44-54.
NLL Ref: 5828.4F (7147)

The Determination of the Parameters of Atmospheric Diffusion from the Visible Outlines of Smoke Clouds, by V. S. Eliseev RUSSIAN, per, Tr. Glav. Geofiz. Observ, No 185, 1966, pp 77-82 NLL Ref: 5828.4F (7145)

Large-Scale Atmospheric Processes and Station Network Problems, by L. S. Gendin. RUSSIAN, per, <u>Tr Glav Geofiz Observ</u>, Vol 191, 1966, pp 5-17. NLL Ref: 9022.551 (506 M)

On the Statistical Structure of Precipitation Fields, by M. V. Guscina, R. L. Kagan. RUSSIAN, per, <u>Tr Glav Geofis Chsery</u>, Vol 191, 1966, pp 35-46.
NLL Ref: 9022.551 (516 M)

On the Reduction of Meteorological Elements Over an Ares, by R. L. Kagan. RUSSIAN, per, <u>Tr Glav Geofis Observ</u>, Vol 191, 1966, pp 122-132. NLL Ref: 9022.551 (515 M)

The Mathematical Processing of Television Representations of World Cloud Cover, by Yu. 8. Fridman RUSSIAN, per, <u>Tr. Glav. Geofiz. Observ.</u> Vol 203, 1967, pp 35-48. NLL Ref: 5828.4F (7119)

Investigations of Glaze-Rime Deposits in the Lower 300-m Atmosphere Layer, by F. Ya. Klinov, 14 pp.
RUSSIAN, per, Glavnaya Geofisicheskava Observatoria.
Trudy, Prikladnaya Klimatologiya, No 200, 1900, pp 33-44.
ACSI J-4171
FSTC-HT-23-105-68

Vertical Distribution of Strong Winds in the Atmospheric Boundary Layer, by N. V. Zavarina, V. G. Tsverava, 10 pp.
RUSSIAN, per, Glavnava Geofizicherkava Observatoriva, Trudy. Prikladnava Klimatologiva, No 200, 1966, pp 45-52.
ACSI :--4172
FSTC-HT-23-106-68

Scientific Atmospheric Sciences (Contd)

On the Temperature and Wind Profiles in the Lower Parts of the Atmospheric Boundary Layer, by G. B. Maskova.

RUSSIAN, per, Tr Glav Upr Gidromet Slus Inst Prik Geofis, Vol 2, 1965, pp 44-56.

NIL Ref: 5828.4F (5980)

On the Spread of Heavy Particles in the Lower Layer of the Atmosphere with Inversions, by N. L. Bygova, Yu. S. Osipov.
RUSSIAN, per, Tr Glav Upr Gidormet Slus Inst Prik Geofig. Vol 2, 1965, pp 65-73.
NIL Ref: 5828.4F (5979)

Determination of Vertical Velocities in the Lower Layer of the Atmosphere, by L. V. Hisitskaya. RUSSIAN, per, Trudy. Kivev. Ukreinskiy Nauchno-Issledovatel'skiy Gidrometeorologicheskiy Institut. Voprosy Fisiki Oblakov, No 54, 1966, pp 64-70. *FTD-HT-23-649-68

The Representation of Fields of Meteorological Elements with the Help of Alphanumeric Print Out Equipment, by E. E. Tolstikov and I. A. Tsetverikov HUSSIAN, per, Tr. Len. Gidromet. N-I. Tsent, Vol 11, 1967, pp 179-183.
NLL Ref: 5828.4F (7128)

Jet Streams in the Atmospheric Boundary Layer, by P. A. Vorontsov. RUSSIAN, rpt, Trudy Leningrad, Glawnsya Geofizicheskaya Observatoriya. Pizika Programichnogo Sloya Atmosfery, No 205, 1967, pp 77-92. *FTD-NT-24-229-68

Investigation of Atmospheric Turbulence with Gliders, by P. A. Vorontsov.
RESIAN, per, Trudy, Issiander, Glavours Gentisticheslave Characterive, Issiandovenive Postani Change Slove Atmosfery & Postani Planterov, No 189, 1966, pp 24-37.

FIG. 18-24-272-68

Variations of Air Density in the Free Atmosphere Over Certain Regions of the Northern Hemisphere, by L. N. Krylova. RUBSIAN, per, <u>Trudy, Noscow, Nauchno-Issledovate</u>l' skiy Institut Aeroklimatologii, No 30, 1965, pp. 119-152. *FTD-NT-24-228-68

The second of the second

Scientific Atmospheric Sciences (Contd)

The Laplacian of Air Density As an Indication of An Atmospheric Front and Precipitation, by S. S. Klyutsarev
RUSSIAN, per, <u>Tr. Mosk. n-i. Inst. Aeroklim</u>,
Vol 38, 1967, pp 60-63.
NLL Ref: 5828.4F (7133)

On the Theory of the Formation of the Size Spectrum of Particles in Clouds and Precipitation, by I. P. Mazin.
RUSSIAN, per, <u>Tr Tsentr Aerol Observ</u>, Vol 64, 1965.pp 57-70.
NLL Ref: 9022.551 (491 M)

On the Problem of Calculating the Vertical Distribution of Ozone, by A. S. Britaev and E. G. Zavoronkov
RUSSIAN, per, Tr. Tsentr. Aerol. Observ.,
Vol 70, 1966, pp 65-70.
NLL Ref: 5828.4F (7122)

On the Possible Causes of Anomalor Warmings in the Night Polar Stratosphere, by V. I. Bekoryukov. RUSSIAN, per, Trudy Tsentral'noy Aerologicheskoy Observatoriy, No 76, 1967, pp 37-42.

Analogy of the Distribution of Meteorological Elements, by N. A. Magrov.
RUSSIAN, per, <u>Tr Tsentr Inst Prognost</u>, Vol 46, No 73, 1956, pp 40-52.
RIL Ref: 5828.4F (7110)

Decomposition of Meteorological Fields into Natural Orthogonal Components, by N. A. Bagrov RUSSIAN, per, <u>Tr. Tsentr. Inst. Prog</u>. Vol 106, 1960, pp 133-138. NLL Ref: 5828.4F (7143)

The Structure of the Atmosphere with the Incursion of Tropical Air into Europe, by L. S. Minina and T. F. Bataeva RISSIAN, per, <u>Tr. Tsentr. Inst. Prognost</u>, Vol 137, 1964, pp 44-53.
NIL Ref: 5828.4F (7124)

The Evolution of the Tropopause with a Sharp Intrusion of a Cold Air Hass, by L. S. Minina, I. A. Maklakov. RUSSIAN, per, <u>Tr Test Inst Pros</u>, Vol 152, 1966, pp 40-48. HIL Ref: 5826.4F (5993) Scientific Atmospheric Sciences (Contd)

A Method of Forecasting Anomalies of Mean Monthly Air Temperature Taking Account of Their Intensity Over the Northern Hemisphere, by K. A. Vasyukov, D. A. Ped'. RUSSIAN, per, <u>Tr Tsentr Inst Progn</u>, Vol 153, 1966, pp 22_40. NIL Ref: 5828.4F (5989)

The Formation of Seasonal Air Temperature Anomalies, in Relation to their Distribution Over the Northern Hemisphere, by M. A. Dujceva, D. A. Ped'. RUSSIAN, per, <u>Tr Tsentr Inst Prog</u>, Vol 153, 1966, pp 47-63.
NLL Ref: 5828.4F (5987)

A Physical-Statistical Method of Porecasting Air Temperature Anomalies over Western Siberia and Northern Kasakhstan in the Autumn Months, by A. V. Babkin. RUSSIAN, per, <u>Tr Tsentr Inst Progn</u>, Vol 153, 1966, pp 90-95. NIL Ref: 5828.4F (5991)

The Coupling of Fields of 500-1000mb Thickness Anomaly Over the Northern Hemisphere and Temperature Forecasts over the Territories of the Soviet Union, by H. H. Rafailova.

RUSSIAN, per, <u>Tr Tsentr Inst Prosn</u>, Vol 154, 1966, pp 34-40.

NIL Ref: 5828.4F (5982)

Natural Synoptic Periods Over the Extent of the Northern Hemisphere, by N. M. Zaharova. RUSSIAN, per, <u>Tr Tsentr Inst Prom</u>, Vol 154, 1966, pp 94-100.
NLL Ref: 5828.4F (5983)

Studies of the Historical Oscillations of Air Temperature Anomalies for the Purpose of Forecasting Them, by D. A. Drogatsev. RUSSIAN, per, <u>Tr Teentr Inst Prog.</u> Vol 147, 1966, pp 10-26. HIL Ref: 9022.551 (518 M)

Condtions for the Formation of Local War Air Masses over the European Territories of Russia during the Summer of 1960, by T. F. Jatyaeva and L. S. Minina RUSSIAN, per, <u>Tr. Teentr. Inst. Progn</u>, No 152, 1966, pp 29-34.
NLL Ref: 5828.AF (7146)

Scientific Atmospheric Sciences (Contd)

A Statistical Method of Forecasting the Monthly Precipitation in Trans-Caucasus, by D. I. Vacnadze. RUSSIAN, per, <u>Tr Tsentr Inst Progn</u>, Vol 153, 1966, pp 41-46. NLL Ref 5828.4F (5988)

The Inertia of the Air Temperature Over the Territories of the USER at Different Epochs of Solar Activi y, by L. G. Borisova and G. I. Turkenic RESIAN, per, Tr. Tsentr. Inst. Progn., No 154, 1966, pp 23-33.
NLL Ref: 5828.4F (7131)

Turbulent Diffusion in the Atmospheric Surface Boundary Lever, by D. Yordanov. BUIGARIAN, rpt, Bulgarska Akademiya na Naukite. Geofisichen Institut. Isvestiya, Vol 7, 1965, pp 11-28. *FTD-HT-23-645-68C

Effect of the Wind Profile on Diffusion in the Atmospheric Surface Boundary Layer During Unstable Stratification, by D. Yordanov.

BUIGARIAN, per, <u>Bulgarska Akademiya na Naukite</u>.

Geofisichniya Institut, Izvestiya, Vol 9, 1966, pp 23-30.

*FTD-HT-23-554-68C

Cn the Coefficient of Turbulent Exchange in the Frictional Layer, by Chao Ber-lin.

CHINESE, pur. Acta Meteorologica Sinica, Vol 27, No 3, 1956, pp 195-218. P100146168

AFCRL ENA 67-168

The Budget of the Atmospheric Radiation Energy Over Eastern Asia (III) The Heat Endget of the Earth-Atmosphere System in a Cloudy Atmosphere, by Chen Lung-shun, Kung Chih-pen.
CHINESE, per, Acta Nateorologica Sinica, Vol 35, No 1, 1965, pp 6-17.

AFCRL EFF 66-136

A Preliminary Study of the General Circulation in the Upper Proposphere and the Lower and Middle Stratosphere Over East Asia, by Dao Shih-yen, Li Yo-fang.
CHIMESE, per, <u>Acta Neteorologica Sinica</u>, Vol 35, No 2, May 1965, pp 155-165. P100146368
AFCRI EN: 66-142

Studies on the Hicrophysical Hechanism of Precipitation from Harm Clouds, by Zhou Xiu-ji. CHINESE, per, The Science Press, 1964, 105 pp. AFCRL ENN 66-128

Scientific Atmospheric Sciences (Contd)

Preliminary Results of Observations of Latitude Variation at the Tientsin International Latitude Station Suring the Years 19590-1962.0, by Li Shi-guang, Zhu Yong-he. CHINESE, per, T'ien-wen Hsueh-pao (Acta Astronomica Sinica), Vol 12, No 1, June 1964, pp 11-17. *AFCRL Emm-68-185

Atmospheric Models and Astronomical and Parallactic Refraction, by J. Kabelac. CZECH, per, Studia Geophysica et Geodaetica, Vol 11, No 1, 1967, pp 1-20.

KLM - Research on the Lowering of Weather Minima for Landing of Aircraft, by C. H. Reede. DUTCH, per, <u>Incenisur</u>, Vol 77, No 11, 1965, pp 11-13. NLL Ref: 5207 (1250)

Method of Dynamic Self-Ignition Temperature Determination of Air-Dust Clouds, by S. Hulanicki and B. Glowiak POLISH, per, Archiwum Gornictwa, Vol 11, No 1, 1966, pp 87-98.
NLL Ref: 8313.4 (5532)

Behavioral & Social Sciences

Combined (Deterministic-Self Teaching) Control Systems For Complex Processes, by A. G. Ivakhnenko RISSIAN, per, AN SSSR. Institut Avtomatics i Telemakhaniki. Samoobuchayushchiyesya Avtomaticheekiye Sistemy, 1966, pp 135-147.

Form and Size of Magnetic Film Memory Elements and Memory Construction, by G. P. Zharikov. RESIAN, per, Doklady, Seminar Fiziko-tekh-nologicheskiye Voprosy kidermetiki, No I, 1966 pp 94-105.

*FTD-MT-24-240-68

Determination of the Statistical Characteristics of Recognizable Patterns in the Process of Learning, by A. V. Milenkiy.

RUSSIAN, per, <u>Kibernetika</u>, No 3, 1967, pp 56-61.

GTD-NT-21-305-68

Scientific
Behavioral & Social Sciences (Contd)

Scientific
Behavioral & Social Sciences (Contd)

On Formalization of the Concept of a Program, by A. P. Ershov.
RUSSIAN, per, <u>Kibernetika</u>, No 5, Sept-Oct 1967, pp 40-57.
*FTD-HT-23-533-68

Retention Index File Card Holder, by J. C. Loswenguth. FRENCH, per, Le Fichier des Indices de Retention, 1965, pp 1-12. *FTD-HT-23-713-68

Algrithmic Languages and Translating Systems, by V. N. Red'ko, Ye. L. Yushchenko. RUSSIAN, per, <u>Kibernetika</u>, No 5, Sept-Oct 1967, pp 87-91.
*FTD-HT-23-534-68

Biological & Medical Sciences

Scientists Investigate Kesults of Telepathic by A. I. Oparin.

Experiments, 12 pp.

RUSSIAN, np, Literaturnaya Gazeta, 5 June
1968, p 12.

JPRS 45,922

RUSSIAN, np, Literaturnaya Gazeta, 5 June
PIENUM PRESS

Abiogenesis and the Initial Stages of Evolution, by A. I. Oparin.
RUSSIAN, bk, Abiogenez i Nachalnye Stadii
Evolyutsii Zhizni, 1968.
PIENIM PRESS

Preliminar Character Processing in Recognition Systems, by A. A. Burlaka. RUSSIAN, rpt. <u>Moscow. Vsesoyusnyy Institut Nauchnoy 1 Tekhnicheskoy Informatsii. Avtomaticheskoye</u> <u>Chteniye Teksta</u>, 1967, pp 166-170. *FTD-HT-23-630-68 Acclimatization to hypoxia and its Physiclogical Acclimatization to hypoxia and its Physiclogical Acchanisms, by Zoya Ivanovna Barbashova, 237 pp. RUSSIAN, bk, Akklimalizatsiya k Gipoksii i Yeye Fiziologicheskiye Nokhanizmy, 1960, pp 1-215.

JPRS 15,921

Well Translatable Grammars and Languages of the Algel Type, by K. Chulik.
RUSSIAN, per, Nauchno-Tekhnicheskaya Informatsiya,
Series 2, No 3, 1967, pp 21-23.
*FTD-HT-23-613-68

Complex Nethods of Spectral Investigation of Photosynthesis and Pigment Systems of Photosynthesizing Organisms, by F. F. Litvin, 19 pp. RUSSIAN, per, Biologicheskiye Nauki, No 4, 1968, pp 134-1/6.

JPRS 45,938

Identification of Images, by V. S. Fayn, 19 pp. RUSSIAN, per, <u>Priroda</u>, No ? 1966, pp 18-26. Pl00149668-V FTD-MT-66-158

Search for New Cholinergic Drugs Among Substituted Acetic Acid Derivatives, by E. V. Vlasenko, 13 pp. RUSSIAN, np. <u>Biologicheskiy Zhurnal Armenii</u>, Feb 1968, pp 34-43.

JPRS 45765

LYAPAS-Language Programming System PS-LYAPAS for an M-20 Computer, by M. Ya. Tovshteyn. RUSSIAN, rpt, Sb. Vychisl Sistemy, Vol 25, 1966, pp 117-139. *FTD-MI-24-266-68 Reflective Properties Important in Cybernetics, by V. A. Skorobogatov, 9 pp. RUSSIAN, per, Filosofskiye Nauki, No 3, 1968, pp 61-67. JPRS 45813

Model Language for Controlling Computing Medium, by Yu. I. Klykov. MUSSIAN, rpt, Simposium po Probleme "Vychislitelryve Sistemy" Novosibirsk, 1966. Vychislitelryve Sistemy; Trudy Simposiuma. Novosibirsk, Isd-vo "Nauka", 1967, pp 138-142. *FTD-MT-24-304-68

Phenotypic Expression of Allelic Mutations of the sd2 Loci in the Yeast Saccharomyces Cerevisiae, by S. A. Koshin.
RUSSIAN, per, Genetika, No 7, 1967, pp 71-76.
AEC-ORNL-tr-1961

"Programmed Learning: New Problem, New Prospects", by A. Pshenichnikov. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, No 10, Oct 1966, pp 155-157.
*FTD-HT-23-532-68

New Data on the Ecology of the Cephalopod Symplectoteuthis Ouslaniensis from the Gulf of Aden, and the Trospects for Economic Exploitation of Stocks of the Cephalopod, by G.V. Zuev. RUSSIAN, per, Gidrobiologicheskii Zhurnal, Vol 3, No 1, 1967, pp 10-46. NLL Ref: 6113-199 (121a)

Antibiotic Properties of Some Sour Milk Products, by V. I. Bukanova. RUSSIAN, per, Gig Sanit, No 8, 1952, pp 32-36. ABC-BNL-tr-216

Protective Action of Organophosphorus Complexing Agents in Poisoning by Soluble Beryllium Compounds, by O. G. Arkhipova, P. P. Dvizhkov, 7 pp. RUSSIAH, per, Gigiyena i Sanitariya, May 1968, pp 26-31.

JPRS 45,973

Artificial Nests for Wild Ducks. From Experience of the Sladko-Limanskogo Hunting Establishment, by N. S. Oleinikov.
RUSSIAN, bk, Iskusstvennye Gnezdov'ia Dlia Dikikh Utok. Is Opyta Sladko-Limanskogo Okhotkhoziaistva, 1966, 111 pp.
*CFSTI TT 68-50690

۱

Experimental Investigation of the Toricity of Certain Fluoroaromatic Compounds, by A. S. Iapik, 5 pp.
RUSSIAN, per, AN SSSR. Sibirskoye Otdeleniye.
Izvestiya. Seriya Biologo-Meditsinskikh Nauk, No 3, 1965, pp 91-94. P100137968
FTD-HT-67-373

Changes in Fish Fat When Storing Fish in Slightly Frozen State, by A. 1. Piskarev, 3 pp. MUSSIAN, per, Kholodilnaya Tekhnika, No 4, 1968, pp 40-42.

**CFSTI TT 68-50476

Statistical Estimation of Error Probability in Pattern Recognition Based on Experimental Data, by L. S. Belobragina.
RUSSIAN, per, <u>Kibornetika</u>, No 4, 1967, pp 81-89.
*FTD-NT-23-701-68

Control Processes in the Organism of Man Under Burn Shock, by Ye. V. Gubler, A. A. Pervozvanskiy, 17 pp.
RUSLIAN, per, <u>Kibernetiku na Slushbu Kommunismu</u>, Vol 4, 1967, pp 217-228.
JPRS 45,606

Defining the Concepts of Health and Disease in Connection with Solving Automatic Diagnostic Problems, by V. S. Genes, 10 pp. RUSSIAN, per, <u>Kibernetiku na Slushbu Kommunismu</u>, Vol 4, 1967, pp 229-236.
JPRS 45,606

Scientific
Biological & Medical Sciences (Contd)

Qualitative Evaluations of Recognition Systems Based on the Method of Comparison with Respect to a Set of Attributes as a Whole, by V. S. Genes, 12 pp.

RUSSIAN, per, <u>Kibernetiku na Sluzhbu Kommunizmu</u>, Vol 4, 1967, pp 237-244.

JPRS 45,606

Cybernetic Techniques in Radicine, by N. R. Amosov, 14 pp.
RUSSIAH, per, <u>Kibernetiku na Sluzhbu Kormunizmu</u>,
Vol 4, 1967, pp 245-254.
JPRS 45,606

Some Problems in the Simulation of Complex Systems, by N. E. Arosov, 17 pp.
RUSSIAM, per, <u>Kibernetiku na Sluzhbu Kommunizmu</u>,
Vol 4, 1967, pp 255-267.
JPRS 45,606

Principles of Construction of Diagnostic Systems with the Help of Mathematical Machines, by M. L. Bykhovskiy, A. A. Vishnevskiy, 19 pp. RUSSIAN, per, <u>Kibernetiku na Sluzhbu Kommunizu</u>, Vol 4, 1967, pp 268-281.
JPRS 45,606

Rogulation of the Ascending Flow of Information by the Corticofugal Feedback System, by R. A. Reshcherskiy, 12 pp.
RUSSIAN, per, <u>Kibernetiky na Sluzhbu Kommunizmu</u>, Vol 4, 1967, pp 282-290.
JPRS 45,606

Kiev Scientific Research Institute of Experimental and Clinical Oncology, by R. E. Kavetskiy.

RUSSIAN, bk. Kiyevskiy Hauchno-Issledovatel'skiy
Institut Experimental'noy i Klinicheskoy Onkologii.

1967, pr 3-34.

**ACSI J-5209
ID 2204015268

Sea Otters, by S. V. Marakov.
RUSSIAN, rpt, <u>Krai Nepuganykh Ptits: Zhdvotnyi mir Komandorskikh Ostrovov</u>, 1966, pp 22-30.
*CFSTI IT 68-50692

Study of Lignin by Infrared Spectroscopy Keto-Rhol Tautomerism, by Tu. S. Pilippinuk. RUBSIAN, per, Lesnos Ehurnel, No 6, 1966, pp 116-118. NLL Ref: 9022.093 (8714)

Determination of the Absolute Abundance of Cod on the Flemish Cape Bank, by K. G. Konstantinov, 6 pp.
RUSSIAN, per, Materialy Rybokhozyaistvennykh
Issledovanii Murmansk, 1967, pp 28-33.
RUSSII TT 68-50475/2

The Circadian Tide of Human Physiological Functions in Health and Disease, by F. I. Komarov, L. V. Zakharov, 34 pp. RUSSIAN, per, Meditsina, 1966, pp 3-6, 160-185. P500144768
Dept of Navy ONI tr 2383

The Chemoreception of Insects (Survey of the Literature), by L. V. Ivanova, 7 pp. RUSSIAN, per, <u>Meditsinskaya Parazitologiya i Parazitarnyye Bolezni</u>, No 5, 1964, pp 608-612. ACSI J-4532 ID 2204011268

Repellents Against Various Examples of illocd-Sucking Dipterous Insects - (Survey of the Literature), by V. V. Vladimirova, 9 pp. RUSSIAN, per, <u>Meditsinskaya Parazitologiya i Parazitarmyye Bolezni</u>, No 3, 1965, pp 310-346. ACSI J-4530
ID 2204011068

A Hand Generator for Electroaerosols and its Clinical Use, 5 pp.
RUSSIAN, per, <u>Meditsinskaya Promyshlennost SSSR</u>, No 9, Sept 1965, pp 45-49.
ACSI J-3192
ID 2204037067

Procedure Outlined for Programmed Medical Examination, by V. S. Genes, 8 pp.

RUSSIAN, per, Meditsinskaya Tekhnika, No 3, 1968, pp 3-8.

JPRS 46,069

Dependence of Work Injuries on Occupation, Age and Experience of Miners, by P. I. Kokorin.
RUSSIAN, bk, Mery Bor'by a Treventieson v Pred
Vyesoch Pol Shak, Moscoy, Ch 4, 1965, pp 123-135.
NIL Ref: 8313.4 (5426)

A Method of Calculating the Sterilization Conditions for Canned Goods for Feeding to Children, in Connection with the Thermal Resistance of Thermophilic Bactefia, by V. I. Rogachev. RUSSIAN, rpt, Metodika Rascheta Reshimov Sterilizatsiy Konservov Dlya Pitaniya Detey v Svyazi s Termoustoychivost yu Termoril nyah Bakteriy, pp 31-35.
ACSI J-3936
ID 2204059367

Scientific
Biological & Medical Sciences (Contd)

Carbonated Beverages from Whey, by S. Kuz'mina RUSSIAN, per, Molochnaya Promyshlennost, Vol 27, No 4, 1966, pp 28-30.
NLL Ref: 5828.4F (12642)

Short Key to the Bloodsucking Flies of the Fauna of the SSSR, by I. A. Rubtsov.
RUSSIAN, per, hoskva, Opredeliteli po Faune SSSR, Izdavenye Zoologicheskim Institutom Akademii Nauk SSSR. No 77, 1962, 227 pp.
*CFSTI TT 68-50333

Soviet Scientists Discuss Organ Transplantations, 27 pp.
RUSSIAN, per, Nauka i Zhizn', No 4, 1968, pp 78-96.
JPRS 45,963

Academician Berg Interviewed on Role of Cybernetics, by L. Kornilov, V. Kankulin, 8 pp. RUSSIAN, np, Nedelya, No 21, 19 May 1968, pp 4-5.
JPRC 45738

Certain Aspects of the Use of Corticosteroids in Heart Surgery, by L. N. Sidarenko, I. P. Chepkiy, 11 pp. RUSSIAN, per, Nekotory, e Aspekty Primeneniya Kortikosteroidov v Serdechnov Khirurgli, 1963, pp 68-72. P100149468 FID-HT-67-467

Neutrons in Radiobiological Experiments, by B. M. Isayev. RUSSIAN, mon, <u>Neytrony v Radiobiologichaskom</u> Exsperimente, 1967, 292 pp. *FTD-MT-24-258-68

Essays on Human and Animal Physiology and Pathology at High Mountain Altitudes, by M. A. Aliyev. RIBSIAN, mon, <u>Ocherki po Fisiologii i Patologii</u> <u>Cheloveim i Zhivotnykh v Usloviyakh Vysokogoriya</u>. 1967, pp 1-157. *FTD-MT-24-262-68

Organization and Methodical Principles for Registration of Rodent Numbers at Anti-Plague Establishments, by B. K. Penyuk.
RUSSIAN, bk, Organization and Methods of Registration of Birds and Harmful Rodents, 1963, pp 152-158.
NLL Ref: 5828.4F (12729)

1800

Automatic Count of Microorganisms Differing in the Color of their Luminescence, by D. P. Babajanian, 8 pp. RUSSIAN, per, <u>Brikladnaya Biokhimiya i Mikrobilogiya</u>, Vol 2, No 6, pp 703-706. ACSI J-4786 PSTC-HT-23-31-68

Adaptation of Cell and Molecule to Environment Studied, by V. Ya. Aleksandrov, 26 pp. RUSSIAN, per, <u>Priroda</u>, Mar 1968, pp 2-17. JPRS 45,914

Calculation of Integral Burden in Bone Tissus Due to Incorporated Radium-226, by V. M. Malykhin, V. P. Shamov.
RUSSIAN, rpt, <u>Proc of Symp. Assessment of Radio-Activity in Man</u>, Vol 2, May 1964, pp 253-265.
NIL Ref: 8732 (1280)

Effect of the Addition of Inosineand Adenine Upon the Preservation of Red Cell Suspension, by F. G. Ginzburg, 7 pp.
RUSSIAN, bk, Questions of Biophysics, Biochemistry and Pathology of Erythrocytes, pp 310-317.
ACSI J-4691
ID 2204014068

Radiation Affections and Affections by Toxic Agents and Protection Against Them, by S. Krasnov, 60 pp.
RUSSIAN, bk, Radiatsionnyye Porazheniya,
Porazheniya Otravlyayushchimi Veshchestvami i
Zashchita ot Nikh, 1965, pp 42-49; 64-134.
ACSI J-2942
ID 2204030967

Radioelectronic Equipment for Temporal Analysis of Reflexes, by O. Ya. Bokser, M. I. Klevtsov, 70 pp.
RUSSIAN, bk, Radioelektronnaya Apparature Dlya Vremennogo Analisa Reflexaov, 1964, pp 1-64.
P100132088-V
FTD-MT-66-133

Rydrodynamic Properties of Fishes, by V. A. Fedorov. RUSSIAN, per, <u>Rybroye Khosyavstvo</u>, No 9, 1967, pp 51-53.

*FTD-HT-23-711-63

A Quick Method of Determining the Phenols in Smoked Fish, by A. I. Yuditskaya RUSSIAN, per, Rybnoe Khozyaistvo, Vol 43, No 11, 1967, pp 62-63. NLL Ref: 9023-175 (451) Scientific
Biological & Medical Sciences (Contd)

The Effect of the Inhalation of Cold Air on the Organism of a Man Wesring a Breathing Apparatus During Work in a Hot Environment, by V. L. Chumichev.

RUSSIAN, per, Sb Statei po Gornospas Delu, 1965, pp 62-71.

NLL Ref: 8313.4 (5424)

On Current Tasks in the Field of History of Medicine, 8 pp. RUSSIAN, per, Sovotskoye Zdravookhraneniye, No 4, 1968, pp 3-8.
JPRS 45,956

Some Questions of Nethodology in Social Mygiane, by G. I. Tsaregorodtsev, 5 pp.
RUSSIAM, per, <u>Sovetskoye Zdravookhraneniye</u>,
No 4, 1968, pp 8-12.
JPRS 45,956

Medical-Geographic Research Aids Solution of Current Public Health Problems in the Tatar Assr, by I. Mukhutdinov, 5 pp. RUSSIAN, per, <u>Sovetskoye Zdravookhraneniye</u>, No 4, 1968, pp 13-17. JFRS 45,956

Psychiatric Assistance in Rehabilitation of the Fentally Ill, by Z. N. Serebryakova, 7 pp. RUSSIAN, per, Sovetskoye Zdravookhraneniye, 1.0 4, 1968, pp 17-22.

JPRS 45,956

Smoking Among the Student Youth of UFA, by V. Ya. Kiselov, 6 pp. RUSSIAN, per, <u>Sovetskoy Zdravookhraneniye</u>, No 4, 1968, pp 27-30.

Dmitriy Il yich Ul yanov, Physician, Revolutionary, Public Figure, by V. Khonkin, 8 pp. RUSSIAL, per, Sovetskoyo Zdravookhranoniye, No 4, 1968, pp 31-35.
JPRS 45.956

The Redical Situation in Armenia After it had Joined Russia, by R. S. Parsadanyan, 8 pp. RUSSIAH, per, <u>Sovetskove Zdravookhranentya</u>, No 4, 1968, pp 35-10.
JPRS 45,956

Social Hygiene in the Ukrainian SSR, by I. D. Khorosh, R. L. Zantbarg, 10 pp. RUSSIAN, per, Sovetskoye Zdravookhraneniye. No 4, 1968, pp 40-46.
JFRS 45,956

Redico-Sanitary Department of the Central Executive Committee of the First Session of the Soviets, by A. I. Nesterenko, 8 pp. RUSSIAN, per, Sovetskoye Zdravookhraneniye, No 4, 1968, pp 47-51.

JPRS 45,956

The State of Public Health in the Tomsk Area Following the Defeat of the Kolchak Rebellion, by E. N. Valivach, 5 pp. RUSSIAN, per, Sovetskoye Zdravookhraneniye, No 4, 1968, pp 53-56.
JPRS 45.956

Medical Workers Among Political Deportees in Siberia, by A. I. Nalozemova, 5 pp. RUSSIAN, per, Sovetskoye Zdravookhraneniye, No 4, 1968, pp 56-58.
JPRS 45,956

Russia's First Sanitation Physician, I. I. Molleson, by N. I. Zhuchkova, 8 pp. RUSSIAN, per, <u>Sovetskoye Zdravockhraneniye</u>, No 4, 1968, pp 60-63. JPRS 45,956

History of Medicine, by P. E. Zabludovskiy, 11 pp. RUSSIAN, per, Sovetskoye Zdravookhraneniye, No 4, 1968, pp 80-85.
JPRS 45,956

Activity of the Moscow Scientific Historico-Medical Scriety, by Yu. A. Shilinis, 8 pp. RUSSIAN, per, <u>Sovetskoye Zdravookhranenive</u>, No 4, 1968, pp 88-91. JPRS 45,956

Handbook on Radiation Safety, by V. F. Koslov. RUSSIAN, bk, <u>Spravochnik po Radiatsionnov</u>
<u>Besopasnosti</u>, 1967, 274 pp.
*FTD-NT-24-243-68

New Radiation? Possibly, by A. Heksanskiy, 8 pp. RUSSIAN, per, Starshina Serghant, No 2, 1967, pp 30-31. P500062868
Dept of Navy NIC tr 2556

Scientific
Biological & Medical Sciences (Contd)

The Development of Portable Methane Indicators, by V. K. Perepelitsa.
RUSSIAN, per, <u>Trudy MakNII</u>, Vol 16, 1965, pp 146-152.
RIL 8313.4 (5316)

A Portable Mathane Indicator for Mines, by V. K. Perepelitas. RUSSIAN, per, <u>Trudy Maldill</u>, Vol 16, 1965, pp 152-156. NLL 8313.4 (5317)

Aerosynoptic Conditions for the Establishment of Extended Periods of Maximum Air Pollution in the Town of Kemerovo, by A. I. Seveuk. RUSSIAN, per, <u>Tr. N-i inst. Aeroklim</u>, Vol 42, 1966, pp 96-101. NLL Ref: 5828.4F (7144)

The Role of the Number of Pollen Grains Per Flower in Plant Breeding, by D. V. Ter-Avanesyan. RUSSIAN, per, Trudy Prikl Bot Genet Selek, Vol 28, 1949, pp 19-33.

AEC-BNL-tr-204

An Assessment of the Fire Hazard Inherent in Working Hethods Using Hydraulic Mechanisation, by V. M. Haevskaya, A. P. Rapotsevich. RUBSIAN, per, <u>Trudy VostNII</u>, Vol 5, 1964, pp 181-197. NII 8313.4 (5280)

Basic Requirements for the Single-Phase Barth Fault Protection of the High-Voltage Networks of Opencest Coal Mines, by Yu. P. Minovakii. RUSSIAN, per. Trudy VostNII, Vol 6, 1965, pp 208-215.
NIL Raf: 8313.4 (5388)

Electrical Parameters of the Membrane of Amoeba Proteus, Part 1. Immobile Amoebae, by I. V. Batuyeva. RUBSIAN, per, <u>Teitologiva</u>, Vol 7, No 2, 1965, pp 188-196. NIL 5207 (1169)

The Rate of Synthesis of Different Fractions of Ribonucleic Acids in the Nuclei of Liver Cells in Ontogenesis, by Z. M. Shereshevskaya, 10 pp. RUSSIAN, per, <u>Tsitologiya</u>, Vol 9, 1967, pp 547-552. P911159768
AEC-BNL-Tr-198

Reasons for the Deflagration of Explosive Charges During Shotfiring Operations at Coal Races in Mines with a Gas and Dust Hazard, by F. M. Gel'fand. RUSSIAN, per, Ugol', Vol 41, No 9, 1966, pp 56-68. NIL Ref: 8313.4 (5402)

Ukrainian Biochemistry Journal.
RUSSIAN, per, Ukrainskii Biokhimicheskii Zhurnal,
Vol 39, Nos 1-6, 1967, 900 pp.
*CFSTI TT 68-50323
AEC-tr-6871

Hicroflora of Decaying Brick, Narble and Plaster, by B. V. Gromov, 7 pp. RUSSIAN, per, <u>Vestnik Leningradskogo Universiteta</u>, Vol. 15, No 3, 1963, pp 69-74.
ACSI J-4885
FSTC-HT-23-55-68

Improvement of Kjeldahl Method for Total Nitrogen Determination, by A. F. Sysoev

HUSSIAN, per, <u>Vestnik Selskh. Nauk</u>, Vol 7,
1967, pp 100-102.

NLL Ref: 5828.4F (12730)

Veterinary Science to go to New Heights. RUSSIAN, per, Veterinarya. No 1, 1968, pp 1-3. ACSI J-5118
FSTC-HT-23-86-68

Scientific Research on Disease of Swine at the All-Union Experimental Veterinary Sciences Institute, by P. I. Pritulin.

RUSSIAN, per, Veterinariya, No 1, 1968, pp 13-15

#ACSI J-5117

FSTC-HT-23-242-68

Inner Speech and Thought, by A. N. Sokulov. RUSSIAN, bk, <u>Vinitrannyaya Rech i Myshlanie</u>, 1968. PIENUM FRESS

Sensory-Perceptual Characteristics of Individual Human Development, by B. G. Anan'yev, 11 pp. RUSSIAN, per, <u>Voprosy Psikhologii</u>, No 1, Jan-Feb 1968, pp 3-11.

JPRS 45,597

Exteriorisation Reactions Under Conditions of Prolonged Isolation and Their Significance in Understanding Split Personality Hechanisms, by O. N. Kuanetsov, V. I. Lebedev, 14 pp. RUSSIAN, per, <u>Vorrosy Psikhologii</u>, No 1, Jan-Feb 1968, pp 31-41.

JPRS 45,597

Soviet World Health Organization Experts Interviewed, 21 pp. RUSSIAN, per, Zdorov'ye, Apr 1968, pp 1-8. JPRS 45752

Life, Its Nature, Origins and Development, by A. I. Oparin.
RUSSIAN, bk, Zhizn, ee Priroda, Proiskhozhdenie
Razvitie, 1968.
PLENUM PRESS

Anti-Entropy Resolves Paradox in Thermodynamics of Thought, by N. I. Kobozev, ll pp. RUSSIAN. per. Zhurnal Fizicheskoy Khimii, Vol 42. Jan 1968, pp 5-12. JPRS 45753

An Antigenic Structure of Klebsiella, Isolated from Respiratory Tracts of Healthy and Sick Persons, 5 pp.
RUSSIAN, per, Zhurnal Mikrobiologiy, Epidemiologiy, i Immunobiologiy, No 2, 1966, pp 67-71.
ACSI J-3135
ID 2204036667

Single Intransal Revaccination with Diphtheria-Tetanus Toxiod, 4 pp. RUSSIAN, per, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 5, 1967, pp 81-84. ACSI J-3189 ID 2204036767

Preferred Temperature and Phototaxis of Coregonus Larvae, by G. L. Shkorbatov, 11 pp. RUSSIAN, per, Zoologicheskii Zhurnal, Vol li, No 10, 1966, pp 1515-1525. #CFSTI TT 68-50474

Epidemological Aspects of Tuberculosis, by R. Radanov, Iv. Pashmakov, 13 pr. EUIGARIAN, per, <u>Suvremenna Meditsins</u>, No 3, Nar 1968, pp 133-194.
JPRS 45,867

Medical Jurisprudence, by Hua Nan i Hsueh Yuan. CHINESE, bk, Fa I Hsueh, 1954.

★ACSI J-5127
ID 2204014768

Variability of the Orientation of Callulese Merecibrils in the Lignified Call Wall, by V. Necessay.

CERCH, per, <u>Drevareky Vakon</u>, No 1, 1966, pp 1-25.

HIL Ref: 9022.093 (8327)

Reducing the Temperature of the Inspired Air in CO Filter Self-Rescuers, by Z. Prusek and R. Fica CZECH, rpt, International Conference on Mine Fires, Paper 21, October 1966. NLL Ref: 8313.4 (5422)

Mathematical Model of Liver Chromoexcretory Function, by P. Jirounek. CZECH, per, Kybernetika, Vol 5, No 2, 1966, pp 440-447. WFTD-HT-23-743-680

Manual for the Military Doctor, by Jan Osanec. CZECH, bk, Repetitorium Vojenskeho Lekare, 1965, pp 216-274. * ACSI J-5151 FSTC-HT-23-219-68

Development of a Method for Determining the Viability of Micro-Organisms in Tinned Food by Means of an Engymetic Reaction, by L. P. Najdenova. DANISH, rpt, Paper Presented at the 2nd Int Congress GERMAN, per, Exp Cell Res, Vol 49, 1968, of Food Science and Technology, Wareaw, 22-27 Aug pp 558-571.

1966. NLL Ref: 3630.48 (DTC-109)

The Synecology of Soil Microflors Application to the Study of Biodeterioration. FRENCH, per, Material und Organismen, Vol 2, No 1, 1967, pp 46-63. FSTC-HT-23-267-68

Directives for Coal Mines in the Area Administered by the Dortmund Mines Inspectorate Issued Dec 1964 OMENAN, rpt, Section 14: Blasting Equipment. Section 15: Shotfiring NLL Ref: 8313.4 (5560)

Tantalum for Skullcap Repair, by Bodo-Heinz. GERMAN, per, Aerztl Fersch, Vol 3, 1949, pp 71-72. ABC UCRL-Trans-10204

Physical Studies of the Circulation with a New Sympathicolytic, by D. Zurwehme GERMAN, per, <u>Araneimitt. Forsch.</u> Vol 17, 1967, pp 310-313. NLL Ref: 5828.4F (12830)

Biological & Medical Sciences (Contd)

Arabidopsis Thalisma (L.) Heynh. As a Subject for Experiments in Genetic and Physiological Development, by F. Laibach, 21 pp.

GERMAN, per, Botanisches Archiv, Vol 44, No 4, pp 439-455.

P50014568-V Dept of Navy ONI tr 2373

The Chromatography of Proteins and Mucleic Acids on Paper and Thin Layers, by Klausdieter Bauer, 18 pp. GERÎÂN, per, <u>Chromatogr</u>, Vol 32, 1968, pp 529-542. P911174068 AEC-LA-Tr-68-17

Experimental Investigations on the Problem of Sensitization, by A. Schnitzer. GERMAN, per, <u>Dermatologica</u>, Vol 112, 1956, pp 479-491. NLL Ref: 5828.4F (12715)

Percentile Participation of Exogenous Thymidine in the Synthesis of DNA-Thymine in the Tissue of Mice and in Hela Cells, by W. Lang, D. Mueller. ABC-ANL-Trans-629

Differences in the Tensile Strength of Earlywood and Latewood Tracheides, by A.P.Schniewind GERMAN, per, Hols Als Roh und Werkst, Vol 24, No 10, 1966, pp 502-506. NLL Ref: 5828.4F (12716)

Considerations in Selecting a Nothed for Datermining Trace Constituents, by R. Schuller. GERMAN, per, Microchimica Acta, No 4/5, 1966, pp 742-750. HLL Ref: 5828.4F (12595)

The Preparation of Calcium Shell Formation, in Balanid Larvae, by O. Kuhn, H. Puchs. GERMAN, per, Naturwissenschaften, Vol 12, No 4, 1954, pp 286-287. P944226468
NSTIC-16752-68 Trans No 1943

A New Tonometer for Equilibrating Blood with Different Cas Pressures Quickly, by D. Laus GERMAN, per, <u>Pflumers Archiv</u>, Vol 254, No 2, 1951, pp 142-143. NLL Ref: 5207 (1255)

Scientific
Biological & Medical Sciences (Contd)

Time of Maturation, Duration of Mitosis and Daily Exchange of Granulated Leucocytes, by Sven Moeschlin.

GERMAN, per, Schweiz Med Wochensch, Vol 76, 1946, pp 1051-1053.

AEC UCRL-Trans-10212

Problems with Stainless Steels in the Wine Industry, by K. Fetter GEHMAN, per, Schweiz. Weinzeit, No 44, 1967, pp 906 & 909.
NLL Ref: 9022.4 (67/414)

Behavior of Serum Engues in Athletic Exertion, by P. Beumann, J. Escher, 15 pp. GERMAN, per, Schweis Z. Sportmed, Vol. 10, 1962, pp. 33-51. P900145168_V Dept of Navy ONI tr 2388

The Influence of Temperature During Germination on the Later Development of Several Annual Species, by Rudiger Knapp, 16 pp.
GERMAN, rpt, Uber den Kinfluss der Temperatur wahrend der Keinung auf die spatere Entsicklung einiger annualler Fflensenerten. P500145768_V
Dert of Navy ORI tr 2366

FIAT Report - Effect of Light on the Germination of Several Strains of Arabidopsis Thaliana L. Heynh, by Ida Rugler, 33 pp. GERMAN, Tpt, Untersuchungen uber das Keinverhalhalten einiger Rassen von Arabidopsis Thaliana Heynh.
P500145368-V
Dept of Navy ONI tr 2286

A Naphthalene Fire and Its Consequences for Preventative Fire Protection, by M. Schenk, GERMAN, per, <u>Ver. Fordar. Deut. Brandschutz.</u> Z, Vol 14, 1965, pp 50-52.
MLL Ref: 8673.845 (204)

Cell Divison in Cancer, by G. Politzer. GERMAN, per, Wien Klin Wochenschr, Vol 48, 1935, pp 1055-1057. AEC UCRL-Trans-10209

Prequency and Rhythm of Cell Division in the Epiderms of the Mouse, by J. M. Ortiz Picon. GERMAN, per, Zeit Zellforsch Mikroskop Amat, Vol 19, 1933, pp 488-509.
ABC UCRL-Trans-10208

Submicroscopic Structure of Thrombocytes, Lymphocytes, and Monocytes of the Somestic Chicken. (Gallus Domesticus), uy Alfred Schumacher. GERMAN, per, Zeit Zellforsch Mikroskop Anat, Vol 66, 1965, pp 219-232.
AEC-ANL-Trans-624

Autoradiographic Investigation of Diurnal Fluctuations in the ³K-Index and the Mitotic Index in Cell Types of Adult Mice, Rat Fetuses, and Ascites Tumor Cells, by Ch. Pilgrim.

GERMAN, per, Zeit Zellforsch Mikroskop Anat, Vol 68, 1965, pp 138-154.

AEC UCRL-Trans-10211

Resistance of Plastics to Biological Noxae in the Tropics, by Laria Irik-Farkas, 10 pp. HUNGARIAN, per, manyag Es Gumi, Vol 4, No 3, 1967, pp 77-80.

ACSI J-4973
FSTC-HT-23-186-68

Diagnosis of Smallpox and Cowpox by the Fluorescent Antibody Technique, by S. Kato. JAPAHESE, per, <u>All-Round Clinic</u>, Vol 13, No 7, 1965, pp 1239-1247.

#ACSI J-5156
FSTC-HT-23-262-68

The Seasonal Change of Gonad Weight of Sockeye and Chum Salmon in the North Pacific Ocean, Especially with Reference to lature and Immature Fish, by Kenji Takagi.

JAPANESE, per, <u>Bulletin of the Japanese Society of Scientific Fisheries</u>, Vol 31, No 4, 1965, pp 17-34.

*CFSTI TT 68-50600

Studies on the Traumatic Rot in the Abalone. II. Isolation of Bacteria in Innoculation Experiment, by Nobuc Matsunaga. JAPANESE, per, Fish Pathology, Vol 2, No 1, Jul 1967, pp 11-21. CFSTI TT 68-50604

On the Filamentous Bacterium Attached to the Gills of Cultured Kuruma-Prawn, Pnaeus-Japonicus Bate, by Yusuke Ishikawa.

JAPANESE, per, Fish Pathology, Vol 2, No 1,
Jul 1967, pp 68-72.

*CFSTI TT 68-50604

The Present Status of Radiotherapeutics in Japan, by Goro KUSUMOTO. JAPANESE, per, Genshiryoku Chosa Kiho, Tokyo, No 10, 1965, pp 18-17.

S. C. S.

Skin Contamination by Radioisotopes, (4). Pig Skin Contamination by S 35, Sb 125, Pm 147, T1 204 and Po 210, by Shingo TASHIRO, Mitsuo MATSUMURA.

JAPANESE, per, J. Atomic Energy Soc. Japan, Vol 8, No 12, 1966, pp 642-644.

*AEC NSJ-Tr 111

Estimation of Personal Neutron Dose in Nuclear Accidents, by Yukio OHTA.

JAPANESE, per, J. Atomic Energy Soc. Japan, Vol 9, No 4, 1967, pp 192-199.

*AEC NSJ-Tr 118

Preservation of Drinking Water by Coating the Inner Surface of the Freshsater Tank, Part 1. The Quality of the Water in Tanks Coated With Some Synthetic Resin Paints, by Y. Sumikawa, Y. Nakada.

JAPANESE, per, <u>Mihon Kokai Galdai Shi</u>, Vol 35, 1966, p 115.

NIL Ref: 9022.065 (2527)

Atrophy of Genital Organs of Young and Adult Mice Irradiated with 14.1 MeV Fast Neutrons and 180 kVp X-Rays, by Osamu YAMAMOTO.

JAPANESE, per, Nipp. Act. Radio'., Vol 26, No 9, 1966, pp 1237-124...
*AEC NSJ-Tr 107

Studies on the Thyroid Function Test by Means of Whole Body Linear Scanning, by Yoshihiko OSIUMI, Keiichi MATSUURA. JAPANESE, per, Nipp. Act. Radiol., Vol 26, No 11, 1967, pp 1462-1470. *AEC NSJ-Tr 120.

Characteristics of a Fluorite Thermoluminescent Dosimeter with Charge-Sensitive Amplifier, by Toshiyuki NAKAJIMA, Tadashi HASHI-ZUME.

JAPANESE, per, Oyo Buturi, Vol 35, No 12, 1966, pp 870-875.

AEC NSJ-Tr 99

The Confession of the State of States of the States of the

Scientific
Biological & Medical Sciences (Contd)

Antituberculous Activity of Gamma-Iodopropargy1-o-Toly1-Ether (M-1189) and Analysis of the Degradation Process in vivo of This Compound Labeled with H-3 and C-14, by Mareichi TOYOHARA, Bunso NOMIYA. JAPANESE, per, Radioisotopes, Vol 15, No 1, 1966, pp.47-52.
*AEC NSJ-Tr 121

A Study on the Kaiyobyo Disease in Marine Fishes, by Kusuda Riichi.

JAPANUSE, bk, <u>A Study on the Kaiyobyo Disease in Marine Fishes</u>, 118 pp.

*CFSTI TT 68-50602

Some Hemodynamic Changes in Man Under the Influence of Heat, by F. M. Spioch, R. Chojnacka, 12 pp.
POLISH, per, <u>Acta Physiologica Polonica</u>, Vol 9, No 6, 1958, pp 739-746. P100137268
FTD-HT-66-628

Effect of the Sudden Use of Hyperbaric spiration on the Circulatory System, by Z. Jethon, Z. Sarol, 16 pp.

POLISH, per, Acta Physiologica Polonica, Vol. 10, 1959, pp 203-217. P500144668-V
Dept of Navy ONI tr 2380

Effect of Hyperbaria on the Peripheral Hlond Picture; Introductory Information, by A. Dolathowski, L. Laba, 4 pp. ROLISH, per, Bulletin of the Institute of Marine Medicine, Gdansk, Foland, Vol 6, 1955. Pp 277-280. P500145068.V Dept of Navy ONI tr 2378

The Pharmaceutical Lab of the Havy, by H. Considera, H. D. Houra, 5 pp. PORTUGUESE, per, A Marinha em Revista, Nov-Dec 1967, pp 22; 24; 25. DIA LN 756-68

Fiedical Services on Cape Verde Islands, by Antonio Torar Cabral, 8 pp. PORTUGUESS, per, <u>Ultrama</u>r, Vol S, No 30, 1967, pp 165-172, JPRS 45,877

radical Services of Sac Tome and Principe, by Fernando Neis, 5 pp. PORTUBLISE, per. <u>Ultramar</u>, Vol 8, No 30, 1967, pp 173-177.
JRS 45,877

Public Health is Keynote of Party Conference, 8 pp. SPANISH, np. Granma, 21 June 1968, p 2. JPRS 45,957

On Health Risks from Welding, by G. Gerhardsson. SMEDISH, per, Svetsen, Vol 26, No 4, 1967, pp 63-65, 76.
NIL Ref: 5828,4F (7105)

Disease from Leptospira Slowed in Forestry Camp, by Thai Van, 6 pp.
VIETNALESE, per, Suc-Khoe, No 78, May 1968, p 6.
JPRS 45,962

Combining Oriental, Western Medicine Discussed, by Tran Sung, 7 pp.
VINTNAMESE, np. <u>Tan-chi Dong-y</u>, Jan-Feb 1968, pp 6-11.
JPRS 45777

New Measures for Medicine Production Leid Out, 6 pp.
VIETNAMESE, per, <u>Tap-chi Dong-v</u>, No 94, Feb 1968 pp 1-6.
JPHS 46,059

Immunization Campaign Reduces Polio Cases, by Hoang Thuy Nguyen, Nguyen Trung Thanh, 6 pp. VISTRAHESH, per, Y Hoc Vietnam, No 3-4, 1967, pp 8-12.

JPRS 46,059

Chemistry

Effect of TiB-4 and 2-PAi. Cholinesterase Reactivators Upon the Efficiency of Hische Relaxants, by A. F. Danilov, V. V. Lavrent'Yeva, 8 pp. RUSSIAK, ACSI J-4784 FSTC-HT-23-85-68

Starring Up of Betatron B-3 with External Injection, by R. G. Bikmatov, A. G. Boriskin.
RUSSIAN,rpt, 42 pp.
AEC UCRL-Trans-1363

Scientific Chemistry (Contd)

Chemical Properties of the Element 104-Kurchatoviu by I. Zvara, Yu. T. Chuburkov. RUSSIAN, rpt, JINR-D7-3548, 11 pp. AEC-ANL-Trans-632

Electron Microscopy in Physicocohemical Research, by V. M. Luk'yanovich, 15 pp. RESSIAN, rpt, AN SSSR, Institut Fisicheskoy Zhimii. "Elektronnaya Microskopiya v Fisiko-Phisicheskikh Isaledovaniyakh", 1960, pp 3-14. P100150468-V FTD-IM-23-725-67

Determination of the Penetration Coefficient of Fast H[†] Ions into Metals by the Condensation Method, by E. S.Borovik
RUSSIAN, per, Atomnaya Energiya, Vol 23, No 2, 1967, pp 102-105.
NLL Ref: 9091.9F (CTO/451)

Reduction of Barite by Natural Gas, by G. B. Shakhtakhtinskii. RUSSIAN, per, <u>Aserb Khim Zh</u>, No 2, 1960, pp 135-139. NLL Ref: 5828.4F (12209)

Concerning an Article by A. J. Hughes and W. E. Raybould on "The Rapid Determination of the Explosibility of Mine Fire Gases,", by V. M. Sukharevskii.
RUBSIAM, per, <u>Begop Trude v Promyshl</u>, Vol 10, No 12, 1966, pp 39-40.
HIL Ref: 8313.4 (5452)

Inhibitors of Combustion of Ammonium Mitrate or Ammonium Perchlorate or Mixtures Prepared from These Salts, by A. P. Glaskova. RUSSIAN, per, AN SSSR. Doklady, Vol 177, No 6, 1967, pp 1341-1344. *FTD-HT-23-285-68

Exchanize of Action of the Ribosoms: Subparticle Locking - Unlocking Hypothesis, by A. S. Spirin, 8 pp.
RUSSIAH, per, <u>Doklady Akademii Hauk SSSR</u>, Vol 179, No 6, pp 1467-1470.
JPRS 46,073

Klectrochemistry, Electrodeposition of Metals and Alloys.

RUSSIAN, bk, Itori Nauki, Elektrokhimiva,

Elektroceashdenie Hetallov i Spavov, Hoskva,
Vol 1, 1966, 259 pp.

*CFSTI TT

Investigation of the Constitution Diagram of the No-fi-C System in the Nolybdemum-Rich Region, by A. M. Zakharov.
RUSSIAN, per, AN SSSR. Izvestiya. Hetally,
No 1, 1968, pp 162-169.
#TD-MT-24-301-68

Fhase Equilibria in the System Ti-Al-V, by I. I. Kornilov.
RUSSIAN, per, AN SSSR. Isvestiya. Metally, No 1, 1968, pp 176-180.
#TD-MT-24-301-68

Constitution Diagram of the System Zr-Ta-V, by Ye. H. Tararayeva.
RUSSIAN, per, AN SSSR. Izvestiya. Metally, No 1, 1968, pp 181-191.
#TD-MT-2h-301-68

Hydrolysis of Thorium Fluoride in Pused Salts, by M. V. Smirnov.
RUSSIAN, per, Izv Vost Filialov Akad Nauk SSSR, No 4-5, 1957, pp 114-118.
ABC-UCRL-Trans-10235

Opposing Tendencies in Mechanism of Oridative Decomposition of Polymers, by M. B. Nedman. RUSSIAN, rpt, <u>Firm Kinet Teamure Reakts Inst Pris Aland Newk 383R</u>, 1966, pp 409-430.

Production of Manganese Dioxide of Reagent Purity, by D. M. Korf, and A. A. Manuren. RUBSIAN, per, Khim. Prom, Vol 5, 1961, p 361. NLL Ref: 5828.4F (12676)

Electrochemical Dimerisation - a Promising Method of Synthesizing Organic Compounds, by H. Ta. Picabin, A. P. Tomilov. RUSSIAN, per, <u>Data Prom</u>, No 9, 1964, pp 649-657. NLL 5826.4F (5930)

Automation of the Preparation of Elemental Sulphur from Concentrates by Phase Enchange, by G. P. Medvedev RUSSIAM, per, Khim. Prom., Vol 42, No 8, 1966, pp 614-618. MLL Ref: 9022.4 (67/358)

The Determination of Monomor and Oligoner Content in Polycaprosaids, by Ya. M. Tikhomirova. MUSTAN, per, <u>Idan Volchma</u>, No 6, 1966, pp 37-39. HLL Ref: 5836,AF (5955)

Scientific Chemistry (Contd)

New Spectrophotometric Method for the Determination of Gossypol Content, by L. A. Khadeeva and Sh. T. Talipov.

RUSSIAN, per, Maslo-Zhirov. Prom. Vol 32, No 12, 1966, pp 30-33.

NLL Ref: 5828.4F (12693)

Extraction and Refining of Gossypol, by A. L. Markman RUSSIAN, per, <u>Maslo-Zhirov. Prom.</u> Vol 33, No 6, 1967, pp 9-11. NLL Ref: 5828.4F (12700)

Alteration in Iron Content in Technical Stearic and Oleic According to Stages in Production, by M. S. Levit.

RUSSIAN, per, Maslo-Zhirov Prom, Vol 33, No 9, 1967, pp 26-27.

NLL Ref: 5028.4F (12708)

Soluble Toxins of Certain Enterobacteriaceae, by M. N. Yanishevskaya, 3 pp. RUSSIAN, per, Neditsinskiy Zhurnal Uzbekistana, No 1, 1965, pp 48-50. ACSI J-4963
FSTC-HT-23-69-68

Infrared Absorption Spectrum of B Sub 2 Holocules, by V. S. Mikitin.
RUSSIAM, per, Hosoow, University, Vertrik.
Seriva II. Holocules, Vol 21, No 3, 1966, pp 40-41.
**FTD-HT-23-616-68

On the Use of Protion Dyes in Microbiology, by N. N. Poglazons, 11 pp.
RUSSIAN, per, <u>Prikladneya Biokhimiya 1 Mikrobiologiya</u>, Vol 3, Issue 3, 1967.
ACSI J-4986
PSTC-NT-23-162-68

Experiments on the Distribution of the Sadius-Thorius-I Lectope, by Yu. I. Modeller. MUSCIAN, spt. Respect Mol Dulety 1 Dak Vyved Sadiosit Lectoper. Masses, 1964, pp 29-34. MLL Ref: 6732 (1239)

Braluation of the Toxicity in Morpholine, by O. M. Zeeva and E. Kn. Tsyrin RUBELAN, per, <u>Toksikol. Movykh From. Knim-Veshch</u>, No 8, 1966, pp 60-70. RLL Ref: 5828.4F (12686)

The Electrical Conductivity of Tantalum Carbides, by P. V. Gel'd, L. B. Dubrovskaya.
RUSSIAN, per, Trudy Inst Khim Akad Nauk SSSR, Ural Filial, No 9, 1966, pp 17-21.
AEC-IA-tr-68-24

Reactions of Columbium and Vanadium with Magnesium, by Ye. M. Savitskiy, V. Baron.
RUSSIAN, per, Trudy Inst Met im A. A. Baikova,
Akad Nauk SSSR, No 14, 1963, pp 139-146.
AEC UCRL-Trans-10219

Micromave Spectrum of Thiopane, by N. M. Posdeev, C. C. Costain.
RUBSIAN, rpt, <u>Tr Kostas po Spektroskopii</u>, No 1, 1965, pp 231-239.
NIL Ref: 8732 (1293)

The Thermo-Dynamics of Certain BaSQ, Reduction Reactions, by A. A. Ravdel', N. A. Novy. RUBSIAN, per, <u>Tr Lemingred Telch Inst im Lensoveta</u>, Vol 61, pp 3-8.
NIL Ref: 5828.4F (12208)

Investigation of the Aqueous Solutions of Thorium Perchlorate, by V. I. Rigin. RUSSIAN, per, Trudy Sib Tekhnol Inst, No 36, 1963, pp 79-81. P911200968 AEC-UCRL-Trans-10236

Preparation and Some Properties of Rare Earth Phosphides, by G. V. Samsonov, L. L. Vereykina. RUSSIAN, per, Ukr Khim Zh, Vol 32, 1966, pp 115-118. AEC UCRL-Trans-10222

The Composition of the Electralytic Deposit of Elack Chrosium, by D. P. Sosimovich.
RUSSTAN, per, Equinally Educated Shumel.
Vol 33, No 2, 1967, pp 200-201.
*FTD-ET-23-620-68

Reaction of Urea and Oralic Acid in Aqueous Solution, by I. L. Absharchuk.
RUSSIAH, per, <u>Ukrainskiv Khimicheskiv Zimurnal</u>, No 1, 1968, pp 12-13.
#ACSI J-5109
FSTC-HT-23-238-68

The Effect of CaSO, on the Phase Composition of Calcium Milicates and Aluminates on Burning, by T. A. Ragonina, M. A. Akimedov.
HUBSIAN, per. Dabek Dim Th., No 6, 1962, pp 5-11.
HLL Ref: \$196 (1374)

The second secon

Scientific Chemistry (Contd)

Absorption, Luminescence and Photoconductivity of AgI Polycrystal Layers within the Region of the Absorption Edge at Low Temperatures, by K. F. Lider, B. V. Novikov.
RUSSIAN, per, Vestnik Leningr Univ Ser Fiz Khim, No 10, 1963, pp 45-51.
NIL 5828.4F (12050)

Determination of Methionine and Cystine in Feeds, by V. G. Riadchikov
RUSSIAN, per, Vestnik Selskoz. Nauk, Vol 6, 1967, pp 92-97.
NIL Ref: 5828.4F (12701)

The Effect of Phase Changes in the Mineralogical Composition of the Inorganic Part of Natural Carbons on the Electrical Conductivity of a Colloidal Plasma, by N. A. Sinayskiy.

RUSSIAN, per, Vliyaniye Fasovykh Ismereniy v Mineralogicheskom Sostave Neorganicheskoy Chasti Naturalnykh Ugley n Elektroprovodnost Kolloidnoy Plasmy, SN-107-186, pp 1-18.

Determination of Microimpurities with a Chromato-Mass-Spectrometer, by G.D.Tantsyrev HUSSIAN, per, Zh. Analit. Khim. Vol 21, No 9, 1966, pp 1113-1117.
MLI Ref: 5828.4F (12692)

Spectrographic Determination of Molybdenum by the Method of Fluorination and Sublimation, by K. A. Pomietun and V. G. Siniakova RUSSIAN, per, Zh. Analit. Khim. Vol 22, No 3, 1967, pp 440-441. MLL Ref: 5828.4F (12694)

Atomic Absorption Analysis by the Photographic Method, by H. P. Ivanov and B. H. Talalsev HUSSIAN, per, Zh. Analit. Khim., Vol 22, No 4, 1967, pp 634-636.
HIL Ref: 5828.4F (12696)

Pelarographic Maxima Dee to the Action of an External Electric Field, by T. I. Popova, T. A. Eryukova.

HIBSIAN, per, <u>Th Fie Dain</u>, Vel 25, No 3, 1951, pp 263-292.

HIL Bat: 6732 (1890)

Investigation of Pyrethrins and Affiliated Compounds. Insecticidal Properties of Allethrin, by V. I. Vashkov HUSSIAN, per, Zh. Mikr. Epid Immun. Vol 43, No 9, 1966, pp 114-117. NLL Ref: 5828.4F (12689)

Investigation of Pyrethrins and Related Compounds, by V. I. Vashkov RUSSIAN, per, Zh. Mikr Epid, Immun. Vol 43, No 10, 1966, pp 106-109.
NLL Ref: 5828.4F (12690)

Analysis of 1-Phenyl-3-Methyl-4-Aminopyrasolone, by V. M. Gorokhovskii. RKSSIAN, per, Zh Nauch i Prik Foto i Kinemat, Vol 10, No 6, 1965, pp 448-449. NLL 5828.4F (12063)

Investigation of 4-Aminopyrasolones-5, by M. S. Khaikin.
RUSSIAN, per, Zh Nauch i Prik Foto i Kinemat.
Vol 11, No 1, 1966, pp 12-13.
NIL 5828.4F (12053)

Light Sensitivity of Phenol Formaldehyde Resins by Yu. E. Kirsh. RUSSIAN, per. Zh Nauch i Prik Foto i Kinemat. Vol 11, No 1, 1966, pp 23-27. NLL 5828.4F (12054)

Effect of Bensotriasole ani Polyethylene Glycol on the Catalytic Effect of Silver in Oxidation of Hydroquinone, by V. I. Sheberstov, T. G. Ovechkina.

RUBSIAN, per. Zh Nauch i Prik Fot i Kinesat.

Vol 11, No 6, 1966, pp 437-438.

NIL Ref: 5828.4F (12617)

Alkylamine Derivatives of 6-Nitro and 6-Chloroquinasolines, by 0. Yu. Magidson and E. S. Colovchinakaya
RUSSIAN, per, Zh. Obshch. Khim. Vol 8, No 17, 1938, yp 1797-1809.
RLL Ref: 5828.bF (12677)

Dispersion of Polystyrene for Foaming Produced by the Susyension Method, by A. V. Yanishevskii and K. V. Volvodin RDSSIAN, per, <u>Zh. Prik. Khim.</u> Vol 40, No 3, 1967, pp 545-548. HIL Ref: 5628.4F (12684) Scientific (Contd)

The Mechanism Involved in the Formation of Radicals During the Radiolysis of Aromatic Compounds in the Solid Phase, by N. Ya. Buben, I. I. Chkheidze, 14 pp.
RUSSIAN, per, Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva, Vol 11, No 2, 1966, pp 228-233.

ACSI J-4588
TD 2204012868

Progress in Isonitrile Chemistry, by
N. P. Gambaryan.
RUSSIAN, per, Zhurnal Vsesovuzhogo Khimicheskogo
Obshchestva, 1967.

ACSI J-5157
FSTC-HT-23-257-68

Method of Modifying the Structure of Polyamides and Polyesters, by L. P. Vasilevskaya. RUSSIAN, Patent No 169,778.
NLL 5828.4F (5923)

Ferrocenehydroxyanthrone and Ferrocenenathrequinone, by A. N. Nesmeyanov.
RUSSIAN, Patent No 183768.
*FTD-HT-23-644-68C

Stabilization of Polyorganosiloxanes, by G. S. Tubyanskaya. RUSSIAN, Patent No 189579, Class 39c. *FTD-HT-23-693-68

High Holecular Chemistry and Physics, Vol 1, by Cheng-tu Kung, Hsueh Yuan, 44 pp. CHINESE, bk, High Polymer Chemistry and Physics, pp 143-170.

ACSI J-4344
ID 2204005268

Vaporization of Actinides and their Compounds III. Vaporisation of Some Compounds of Uranium, by I. Krivy, 55 pp.

CZECH, rpt, Ceskoslovenska Akademie Ved. Res.

Ustav Jaderneho Vyskuma, UJV No 1783, Mar 1967,

48 pp. P911175568-V

AEC-ANI-Tr-584

The Volumetric Determination of Dicarboxylic Acids in Alkyd Resins, by L. Kruysse. DUTCH, per, <u>Verfkronick</u>, Vol 37, No 12, 1964, pp 448-451.
HIL Ref: 5828.4F (12688)

Predictions on the Behavior of First Cycle Solvent During the Processing of Highly Irradiated Fuels, by L. Salomon.
FRENCH, rpt, ETR-213.
ABC ORNL-tr-1902

Stability of HNO2-TBP Diluent Systems: Bibliography of Data Up to June 1966, by L. Salomon. FRENCH, rpt, ETR-203. 50 pp. AEC ORNL-tr-1901

Studies on the Constitution of Soluble Basic Salts by Measuring the Variations in the pH with the Dilution, by R. Schaal, J. Faucherre. FRENCH, per, Bull Soc Chim Fr, Vol 14, 1947, pp 927-932.

AEC-UCRI-Trans-10240

Research into the Metallic Oxynitrides, by R. Collongues, J. C. Gilles. FRENCH, per, Mater Res Bull, Vol 2, 1967, pp 837-848.

ABC-SC-T-68-1531

Chemical Engineering in Fuel Reprocessing, by K. Fritz FRENCH, per, New Techniques, B 1, 1967, pp 1-6. NLL Ref: 9091.9F (Risley 1352)

Study of the Behavior of Fission Products in Liquid Sodium, by A. Barthoux, J. Saroul, 20 pp. FRENCH, per, Proc. Symp. Alkoli Netal Coolants. Vienna, 1966, pp 743-757. P911175268

AEC-TR-6934

A General Method for the Rapid Transformation of Fatty Acids into Methyl Esters, by M. Loury, FRENCH, per, Revue Franc Corps Gras, Vol 14, No 6, 1967, pp 386-359.
NLL Ref: 5828.4F (12706)

Process and Apparatus for the Measurement of Oil in Water, by F. Guigues FRENCH, Patent 1,418,271 NLL Ref: 9022.09 (4585)

Conversion of 1-Benaylise Quinolines into Berbinium Selts, by W. Wiegrebe GERMAN, per, <u>Archiv Pharm.</u> Vol 300, No 4, 1967, pp 329-336. MLL Ref: 5028.4F (12718) Scientific Chemistry (Contd)

Gaseous Explosions in Ducts, by W. Barkmecht, GERMAN, per, Bergfreiheit, Vol 31, No 5, 1966, pp 101-117.
NLL Ref: 5207 (1240)

Rapid Complexometric Determination of Zirconium-Dioxide with Aluminium, Iron and Titanium-Oxide, by J. Baumann, L. Lax.
GERNAN, per, Bericht Deutsche Keramik Gesellschaft, Vol 43, No 1, 1966, pp 21-22. P944226568
NSTIC-17257-68
Tran No 1901

The Electromotive Force of the Galvanic Cell Pt(H₂)HI(m) [AgI]/Ag in the Temperature Range from 20 to 200°C, by G. Kortum and W. Haussermann GERMAN, per, Berichte der Bunseng. Phys. Chem., 1965, Vol 69, No 7, pp 594-604.

NLL Ref: 9022.09 (4633)

Spiral Growth in Pyrolytic Carbon, by E. Fitzer, H. Schlesinger. GERMAN, per, Carbon, Vol 3, 1965, pp 247-255. P911202768-V AEC-ORNL-tr-1890

Thermodynamic Considerations on the Deposition of Carbon During the Pyrolysis of Gaseous Compounds of Carbon, by B. Lersmacher, H. Lydtin. GERMAN, per, Carbon, Vol 5, 1967, pp 205-217. P911201368-V
AEC-NP-Tr-1664

Preparative Thin-Layer Chromatography, by H. Halpaap GERMAN, per, Chemie Ing. Techn. Vol 35, No 7, 1963, pp 488-493. NLL Ref: 5828.4F (12725)

Value of Mercury Porosimetry in Characterising Porous Materials, by H. Juntgen and M. Schwuger GERWAN, per, <u>Chemie-Ing. Technik</u>, Vol 38, 1966, pp 1271-1278. NLL Ref: 9022.046 (97)

Pyrochemical Processing of Breeder Reactor Fuels, by W. Knoch GERMAN, per, <u>Chem. Ing. Techn</u>, Vol 39, 1967, pp 1030-1035. NLL Hef: 9091.9F (Windscale 351)

Froduction of Pyridine and Alkylpyridines, by K. K. Moll GERMAN, per, Chemische Technik, Vol 19, 1967, pp 528-537. NLL Ref: 8673.845 (203)

Thin-Layer Chromatography in Wax Analysis, by G. H. Scholz GERMAN, per, <u>Fette Seifen Anstrichmit</u>. Vol 69, No 5, 1967, pp 333-335. NLL Ref: 5828.4F (12724)

Studies on Cashew Oils, by H. P. Kaufmann and J. Barve GERMAN, per, Fette Seifen Anstrich, Vol 69, No 6, 1967, pp 437-441 NLL Ref: 5828.4F (12713)

The Active Charcoal Treatment of Electrolytes; The Removal of Impurities from Plating Solutions, by R. Weiner GERMAN, per, Galvanotechnik, Vol 58, 1967, pp 717-719. NLL Ref: 9022.4 (67/407)

The Oxidation of Dehaviour of Polymers and Copolymers of Isoprene and Butadiene, by W. Hoffmann GERMAN, per, Gummi Asbest Kunststoffe, No 6, 1967, pp 602-606.
NLL Ref: 5828.4F (12685)

The Mass Spectrometric Behaviour of Quarternary Nitrogen Compounds, by M. Hesse, et al. GERMAN, per, Helv. Chim. Acta, Vol 48, 1965, pp 674-687.
NLL Ref: 5828.4F (12727)

The Structure of Quarternary Alkaloid, Macrosaline, by E. M. Khan CHRMAN, per, <u>Helvetica Chimica Acta</u>, Vol 55, No 99, 1967, pp 1002-1007.
MLL Ref: 5028.4F (12721)

Motopolarography. XX. Outline and Range of Problems.

GENNAN, per, J. Electroanal Chem, Vol 15, 1967, pp 415-450.

P911203268-V

ABC-ENL-Tr-200

Scientific Chemistry (Contd)

Photochemistry of Anomalous Nucleic Acid Building Blocks. II. Electron-Acceptor Properties of Aza-Analogues of the Purimidine and Purine Series, from Polarpgraphic Measurements, by L. Kittler, H. Berg. GERMAN, per, J. Electroanal Chemistry, Vol 16, 1968, pp 251-260. P911203168-V AEC-BNL-Tr-201

Fundamentals and Applications of Silicic Acid Obtained by Flame Hydrolysis, by R.Bode GERMAN, per, Kautschuk und Gummi Kunststoffe, Vol 20, No 10, 1967, pp 578-586.
NIL Ref: 5828.4F (12683)

Conversion of Uranium Hexafluoride to Uranium Dioxide, by H. Vietzke GERMAN, per, Kerntechnik, Vol 6, No 4, 1964, pp 176-177.

NLL Ref: 9091.9F (Risley 1406)

The Significance of Particle Size in Dispersion Hardening: Studies on Al-Mn and Al-Ni Alloys, by H. Unckel GERMAN, per, Metall, Vol 21, 1967, pp 419-421. NLL Ref: 9022.4 (67/389)

Use of Macroporous Ion Exchangers for Treatment of Surface Water with Low Salt Content and Containing Organic Matter, by A. Richter GERMAN, per, Mitteilungen VGB, Vol 102, 1966, pp 197-202.

NLL Ref: 9091.9F (Dounreay 325)

The Preparation of Hydroxypivalic Acid and Ita Polyseters, by H. P. Frank, K. Kraemicki. GERMAN, per, Monatch Chem., Vol 95, No 2, 1964, pp \$10-klb.
HLL Ref: 5826.4F (7109)

Serial Methods for the Determination of Sugars in Potato Tubers, by A. Moll GENAN, per, Mahrung, Vol 10, No 6, 1966, pp 473-481. NLL Ref: 5828.4F (12726)

Investigations on the Separation of Sulphurdioxide from Hot Flue Gases, by R. Kiyoura GENMAN, per, <u>Staub-Reinhalt. Luft</u>, Vol 26, 1966, pp 524-525. NLL Ref: 5828.47 (12680)

Characteristics and Behaviour of Anion Exchange Resins, by H. D. Held GERMAN, rpt, <u>VGB Feedwater Meeting</u>, 1966 pp 52-62. NLL Ref: 9091.9F (Risley Trans 1300)

Quantitative X-Ray Phase Analysis of Various Types of Rust, by P. Keller GERMAN, per, Werkstoffe und Korrosion, Vol 18, 1967, pp 865-878.
NLL Ref: 9022.4 (67/386)

The Application of the Warburg-Technique to Study of Corrosion of Nickel in Oxygen-Bearing Aqueous Hydrochloric Acids, by W. Friedmann and K. Fischbeck.

GERMAN, per, Werkstoffe und Korrosion, Vol 18, 1967, pp 883-888.

NLL Ref: 9022.4 (67/364)

A Color Reaction for Oxalic Dihydrazide, by G. Nilsson, 5 pp.
GERNAN, per, Zeitschrift Fur Analytische Chemie, Vol 153, No 3, 1956, pp 161-165.
ACS I J-4577
ID 2204012068

Detection of Small Amounts of Substances by Means of Ex-Electrons, by J. Kramer. GERMAN, per, Zeit Angew Phys, Vol 22, 1967, pp 272-278. ABC UCRL Trans-10225

Coating (Film) Processes on Zinc Anodes in Caustic Soda Solution, by R. Landsberg, 16 pp. GERFAN, per, Zeitschrift Fuer Elektrochemie, 16 9, 1957, pp 1162-1168.

ACSI J-4889
FSTC-HT-23-161-68

Decomposition Pressures of Nitrates and Sulfates III, by Bernhard Neumann, August Sonntag. GERMAN, per, Zeit Elektrochem Augew Phys Chem, Vol 41, No 8, 1935, pp 611-615. P911201848-V ABC-tr-6938

The Quaternary System K₂O -NH₃ - PO₅ - H₂O, by E. Janecks (IEPMAN, per, Zeit. Fur Phys. Chem., Vol 127, 1927, pp 71-92. NLL Ref: 5828.4F (12645)

Scientific Chemistry (Contd)

Process for the Preparation of a Crystalline Salicylosalicylic Acid, by F. C. Boehringer GERMAN, patent 220 941 NLL Ref: 5828.4F (12687)

The Characteristics of the Thermal Ethylene-Browine Addition Reaction at Low Temperature, by T. Berces.
HUNGARIAN, per, Magyar Kesiai Folyoirat, Vol 70, 1964, pp 138-142.
NIL Ref: 8732 (1300)

Gas-Chromatographic Analysis of Phenylhydrazones and 2,4-Dinitrophenylhydrazones, by E. Fedeli ITALIAN, per, Chimica e L*Industria, Vol 47, No 9, 1965, pp 989-991.
NIL Ref: 5828.4F (12705)

Determination of Dithiocarbamates in Mixtures Containing Copper Salts, by A.A. Del Re and P. Fontana.

Tralian, per, Chimica e Industria, Vol 48, No 5, 1966, pp 486-489.

NIL Ref: 5828.4F (12707)

A New Surface Treatment for Titanium and Alloys, by R. Piontelli and P. Pedeferri ITALIAN, per, <u>Electrochim. Metall.</u> Vol 2, 1967, pp 346-351.
NLL Ref: 9022.4 (67/401)

An Application of the Electrochemical pH-Stat to the Study of the H,drolysis of Netal Ions, by Takashi Morozumi, F. A. Posey.

JAPANESE, per, Denki Kagaku, Vol 35, 1967, pp 633-638.

P9:1202968-V

AEC-ORNL-Tr-1941

Effects of Light and Darkness on Some Organic Compounds in Lemna Perpusilla, by Ching-San CHEN, Hasateru MIYANO.

JAPANESE, per, J. Agr. Chem Soc.

Japan, Vol 40, No 3, 1966, pp 161-164.

**ARC NSJ-Tr 109

Effect of Additives on the Radiation-Induced Polymerization of Trioxane, by Tutomu NARUSE, Mikio HAGA.

JAPANESE, per, J. Chem Soc. Japan, Ind. Chem Sect., Vol 69, No 3, 1966, pp 527-530.

*AEC NSJ-Tr 108

Secular Variation of Atmospheric Radiocarbon Concentration, by Kunihiko KIGOSHI. JAPANESE, per, J. Chem Soc. Japan, Pure Chem. Sect., Vol 87, No 3, 1966, pp 209-220. *AEC NSJ-Tr 104

Chromatographic Separation of Phenolic Quarternary Alkaloids of Isoquinoline Type on a Polyamide Column, by H. Inoue JAPANESE, per, Jnl of Chromatography, Vol 25, 1966, pp 157-158. NLL Ref. 5828.4F (12722)

Reduction of Nitriles by U-Co-B Catalyst, by S. Saito JAPANESE, per, Nihon Yakuzaishi Kyokai Zasshi, Vol 76, 1956, pp 351-352. NLL Ref: 9091.9F (Risley 1412)

Determination of the Solubility and Diffusion Coefficient of Hydrogen in Zirconium, by Matumi Somemo. JAPANESE, per, Nippon Kinzoku Gakkaishi, Vol 24, 1960, pp 249-253.
AEC WAPD-Trans-86

Investigation of the Growth of Bainine in Fe-Ni-C Alloys by Hot-Stage Microscopy, by H. Yada. T. Ooka.

JAPANESE, per, Nippon Kinzoku Gakkaishi, Vol 31, 1967, pp 766-771. P911200768-V AEC-UCRL-Trans-10241

Study of Age Dating by Lu 176-Hf 176 Methods (1). On the Separation of Zr and Hf, by Makoto SHIMA, Sasayo AMANO. JAPANESE, per, Rep. Inst. Phys. Chem. Res., Tokyo, Vol 42, No 3, 1966, pp 153-136.
*AEC NSJ-Tr 119

Determination of Water in Polyande Chips, by Y. Nayanska, A. Ogorsaek.
POLISH, per, Chemia Amalityogna, Vol 10, No 3,
1965, pp 491-493.
HLL 5828.4F (5924)

Determination of Self-Ignition Temperature of Finished Solid Fuel Durt, by S. Melenicki, 3. Glordak. POLIEN, per, Chemia Stemenna, Vol 2A, 1966, pp 199-210. HLL Bef: 8313.4 (5533)

Scientific Chemistry (Contd)

Device for Isolating, Concentrating and Chemically Identifying Components Separated by Gas Chromatography in the M-g Range, by K. H. Kubeczka POLISH, per, <u>Jnl Chromatography</u>, Vol 31, 1967, pp 319-325.
NLL Ref: 9023.175 (452)

Determination of Naphthalene in Coke-Oven Gas, by I. Kavan. POLISH, per, Frace Ustav pro Vyskum Paliv, Vol 11, 1965, pp 204-216. NIL 9022.046 (92)

Studies on the Oxosulphonic Acids, by P. Mazak and J. Suszko POLISH, per, Roczniki Chemie, Vol 9, 1929, pp 431-443. NLL Ref: 5828.4F (12731)

Central Control Systems for Combined Gas and Oil Burners, by B. Banati and N. Frieben SWEDISH, per, BBC Nachrichten, Vol 49, 1967, pp 111-113. NLL Ref: 9022.09 (4682)

Coal Extraction in Development Paces and Gas Emission, by L. A. Sklyarov. RUSSIAN, par, Besop Trude v Prompshl. Vol 10, No 12, 1966, pp 8-10.
NIL Ref: 8313.4 (5444)

Macropolygonal Structure of Clay Plains, by B. V. Vinogradov.
RUSSIAN, por, Doklady AN S3SR, Vol 104, 19555,
pp 118-120.
*APCRL

Geodetic listhod for Determining Refraction Corrections in the Asimuth at Laplace Stations, by A. L. Ostrova'kiy.

RUSSIAN, per, <u>Dopovidi Akademiy Nauk Ukraynskov</u>

RSR, Series B, No 3, 1967, pp 226-229.

*ACIC TC-1042 Scientific forth Sciences & Oceanography (Contd)

Determination of the Parameters of a Compression Wave in Rocky Ground, by B. D. Kristoforov. RUSSIAN, per. Fisika Goreniya i Varyva, Vol 3, No 1, 1967, pp 137-142.
*FTD-HT-23-696-68

Work Organization in Compiling Map Originals by Means of Universal Instruments. Also List of Articles Published in 1967, by V. A. Kargashina, N. T. Taraskina.
RUSSIAN, per, Geodeziya i Kartografiya, No 12, Dec 1967, pp 51-56; 73-80.
*ACSI J-5174
*FSTC-HT-23-256-68

The Ecology of Tetracnids of the Northwestern Part of the European Part of the USSR as Related to the Seasonal..., by M. A. Rodionov. RUSSIAN, per, Geograficheskoe Chehchesto SSSR. Geograficheskii Sbornik, No 16, 1963, pp 179-185. *CFSTI TT 68-50693

Stereophotogrammetric Depth Determination and Survey of the Underwater Relief of Marien Shoals, by N. A. Loseva.

RUSSIAN, per, Geograficheskove Obshchestvo SSSR.

Novyve Problemy 1 istody Kartografii, Leningrad, Ied-vo "Nauka", 1967, pp 25-39.

*FTD-HT-23-654-68

30-Year Cyclic Variations of the Geomagnetic Field and the Estimation from Them of the Electrical Conductivity of the Deep Layers of the Earth, by R. N. Kulieva RUSSIAN, per, Geomag. 1 Aeronom, Vol 7, 1967, pp 694-698.

Trudy of the State of Oceanographic Institute, by V. S. Masarova.
RUBSIAN, bk, Glavnove Upravlenive Gidromateorologleheskoy Slushby pri Sovete Ministrov SSSR. Trudy
Gogudarstvennogo Gkeanograficheskogo Institute.
Vol 71, 1964, pp 1-140.

•FTD-MI-24-241-68

Perfection of Drilling and Blasting at the Zapoliurnyi, by E. A. Grigor'iants, V. S. Levin. RUSSIAN, per, <u>Gornet Zhurnal</u>, No 6, 1965, pp 25-28.
*CFSTI TT 68-50619

Scientific Farth Sciences & Oceanography (Contd)

Twenty-Five Years of Tyrnauzsk Combine, by P. F. Kribchikov. RUSSIAN, per, Gornyi Zhurnal, No 9, 1965, pp 3-6. *CFSII TT 68-50620

Tyrnauzsk Preparation Plant, by V. M. Dubinin, N. A. Kozhemiakin. RUSSIAN, per, <u>Gornyi Zhurnal</u>, No 9, 1965, pp 10-11. *CFSTI TT 68-50622

Some Problems Related to the Use of Delay Lines in Seismic Equipment, by O. N. Hoiseyev, 12 pp. RUSSIAN, per, USSR. Gosudarstvennyy Geologicheskiy Komitet. Osoboye Konstruktorskoye Byuro. Geofizicheskaya Apparatura, No 26, 1965, pp 49-58. P100163368

Hydrological Investigations in Gulf Zal. Postyet With The Use of Diving Techniques, by A. N. Golikov, O. A. Skarlato, 27 pp. RUSSIAN, per. <u>Isslodovaniya Faumy Morey</u>, Vol 3, No 11, 1965, pp 1-21.
Dept of Navy NOC tr 344

Polygonal Patterning of Soils and Vegetation in Landscapes of the Dry Steppe of Northern Kasakhstan, by B. V. Vinogradov. RUSSIAN, per, Izvestiya Ak Nauk SSSR, Seriya Geograficheskaya, No 1, 1959, pp 90-98.

On the Accuracy of Forecasts of Sea Disturbance on the Coasts of Maritime Regions, by Yu. L. Belyak
RUSSIAN, per, Meteorol. i Gidrol, No 2,
1967, pp 96-99.
RLL Ref: 5828.hF (7120)

Standards of Exploitation and Density of Wild Ungulates, by L. S. Lebedove.
RUSSIAN, bk. Formy Exploitatell i Flotposti
Masslenita Divide Formande. 1900, pp 196-188.
CUST II 68-50591

Temperature Anomalies in the Morthern Part of the Pacific Cosen, by Ta. A. Siskov. MESIAN, per. Channels: Tel. 6, No 3, 1966, pp 416-429. MIL Ref: 9022.551 (461 M) Scientific Farth Sciences & Oceanography (Contd)

Some Aspects of the Roughness of the Sea Surface, by M. M. Begorodskil.
RUBSIAN, per, Cheanologiva, Vol 6, 1966, pp 580-592.
RLL Ref: 5828.4F (5978)

The Possibility of Forecasting Storms, Based on Underwater Wave Pressure, by I. I. Stas'. RUSSIAN, per, Okeanologiya, Vol 7, No 4, 1967, pp 683-691. *FTD-MT-24-234-68

Activities of Tartar Oilfields Summarized, by F. Tabeyev, 5 pp. RUSSIAN, np. <u>Pravda</u>, 5 June 1968, p 2. JPRS 45,974

The Soviet Contribution to Oceanic Science, by L. A. Zenkevic and S. D. Osikin RUSSIAN, per, Priroda, Vol 11, 1967, pp 90-100. NLL Ref: 5828.4F (7142)

On Estimating the Amount of Malting Ice in the Open Sea, by V. F. Zaharov, L. V. Balatov. RUSSIAN, per, Problemy Arth i Antarki, Vol 22, 1966, pp 127-128.

MIL Ref: 9022.551 (502 M)

Development of the Science of Earth in SSSR. RUSSIAM, bk, <u>Resvitive Heak O Zemle V SSSR.</u> 1967, 715 pp. *FTD-RD-24-291-68

New Commercial Fishing Regions Selected, by A. V. Kondritskiy, 6 pp. RUSSIAN, per, <u>Brimore Thompsystve</u>, No 3, 1968, pp 3-6. JFRS 45819

Investigation of Fish Distribution in the Great Amstralian Hight, by V. H. Mainrev, V. H. Rashkin, 5 pp. HUBSIAN, per, <u>Brimore Chouverstop</u>, No 3, 1968, pp 14-16. JFSS 45819

Microscians: Experimental Characteristics of Natural Microvibrations of the Ground in the Period Range 8.07-8 Sec, by L. M. Rykamov. MUSSIAM, per, Scienciegy, No 6, 1967. *AFCRI. Scientific Farth Sciences & Oceanography (Contd)

Tectonics of the Turan Plate, by I. S. Vol'vovskiy, R. G. Garetskiy.
RUSSIAN, per, Trudy Akademiya Nauk SSSR, Geologicheskiy Institut, No 165, 1966, 288pp.
*ACIC TC-1437

The Search for Relationships Between the Heat Balance of the Surface of the North Atlantic and Special Features of the Atmospheric Circulation, by V. M. Radikerich.
RUSSIAN, per, Tr.Gidromet Inst Leningrad, Vol 17, 1963, pp 62-71.
NLL Ref: 9022.551 (508 M)

On the Evaluation of the Representativeness of Rain-Guage Data, by R. L. Kagan.
RUSSIAN, per, Tr Glav Geofis Cheery, Vol 191, 1966, pp 22-34.
NLL Ref: 9022.551 (507 M)

Organizing the Entering of Satellite Information onto Blank Geographical Charts, by V. G. Konstantinova, I. A. Tsetverikov.
RUSSIAN, per, Tr Len Gid-past n-i Tsent, Vel 11, 1967, pp 169-174.
HIL Ref: 5826.4F (7111)

Present Status of Experimental Investigations of Heuntain Lee Waves and Some Recommendations for their Diagnosis and Prediction, by P. A. Voronteov. RUSSIM, per, Trudy, Leningred, Glavmana Gentistobashara Champatorium, Isaladovanium Pagranichassa Sieva Atmosfest & Funcabeb yn Vertelstov i Planetov, Bo 159, 1966, pp 3-23.

Investigation of the Air Flow Resistance of Coal Faces Provided with Modern Types of Sepport, by O. I. Enginey. RUSSIAN, per, Truty MAMII, Vol 17, 1965, pp 47-65. NIL 8313.4 (5344)

Microfilming and the Possibilities of Its Application in Cartography, by V. A. Markalov. RUBGIAM, per, Tr Mark Inst Insh Geodes Aerofotos'smit i Eartog, No 31, 1999, pp 123-131.

BLL 5826.AF (12049)

Problems of Biological Oceanography.
BUSSIAN, rpt, Vograpy Biocheanografiy. Materialy
II Neghiusarodige Ukanograficheskage Eungrossa,
30 Nay-9 Jun 1986, 90 pp.
AEC-tr-6040

Scientific Farth Sciences & Oceanography (Contd)

New Geophysical Observatory Described, by I. I. Popov, 10 pp. RUBSIAN, per. Zemlra i Vealennava, No 2, 1968, pp 58-65. JPRS 45740

On the Estimation of Evaporation from a Land Surface, by Liu Chen-hsing. CHINESE, por, <u>Acta Meteorologica Sinica</u>, Vol 27, No 4, 1956, pp 337-343. P100146468 AFCRL EFM 67-169

Study of the Penetration of Ultraviolet Radiation in the Sea, by Jacqueline Lenoble. FRENCH, per, Annales de Geophysique, Vol 12, 1956, pp 16-31. *APCRL

General Results of Deep-Soa Fishing in 1967, 5 pp.
FRE: CH, per, <u>Fulletin de l'Afrique Noire</u>, 15 key 1968, pp 10255-10257.
JPRS 45,877

Special Report on Leveling and Gravity, by C. F. Baeschlin.
FRENCH, per, <u>Bulletin Geodesique</u>, New Series No 57, 1960, pp 246-298.
ACIC TC-1386

Determination of the Earth's Figure, by H. N. Dufour.
FRENCH, rpt, Colleguium of the National Space Studies Center on Dynamic Esthods of Satellite Geodesy, Paris, 22-25 May 1967, 24 pp. *ACIC TU-1443

Dotermination of the Gravity Center of the Earth and the Hajor Semiaxis of a General Ellipsoid, by J. J. Levallois, H. Dufour. FREHCH, per, Comptes-rendus Hebdomedaires des Seances de l'Academie des Sciences, Vol 264, Series A, Ho 10, 6 Har 1967, pp 491-492. *ACIC TC-1440

Exploitation of Holle Potash Deposite Begun, by J. B., 5 pp.
FRENCH, np. Is Wie du Bail Outre-Har, Hay 1968, pp 16-19.
JFRE 45789

Scientific
Farth Sciences & Ocnanography (Contd)

Rigorous Procedure for the Combination of Gravity Mets, Elevation Mets, and Astronomic Longitude Mets, by H. Wolf.

GERMAN, per, <u>Deutsche Geodatische Kommission bei Der Bayerischen Akademie Der Missenschaften</u>,

Ser A. Theoretical Geodesy, Issue 53, 1966, 41 pp. ACIC TC-1330

The Amount of Cooling in Dumes. Reflections of Various Ground Covering for Ultra Violet and Total Solar Radiation, by K. Buttner.
GERMAN, rpt, Ergebnisse Einer Studienreise Nach Satteldune-Amrum.
**APCRL

Contribution to the Determination of Calcium Fluoride in Spars, by W. Zonnchen. GERMAN, per, Freiberger Forschungshefte, Vol 389A, 1966, pp 35-50. NLL Ref: 9022.37 (3162)

Sulfur Isotope Investigations in the Meggen/Lenne (Germany) Pyrite-Sphalerite-Barite Deposit and in Different Devonian Evaporates, by F. Buschendorf, H. Nielson, et al. GERMAN, per, Geochim Cosmochim Acta, Vol 25, 1963, pp 501-523. ABC-tr-6943

Analytical Integration of the Satellite Orbit Perturbations Caused by Gravity Anomalies, by K. Arnold. GSRIAN, per, <u>Gerlands Beitrage sur Geophysik</u>, Vol 76, No 4, 1967, pp 343-348. ACIC TC-1365

increments of the Pole, by T. Loderle.
GERMAN, per, Sterne und Meltraum, Vol 6, No 4,
1967, pp 80-85.
*ACIC TC-1441

Numerical Examples to the Rigorous Theory of the Figure of the Earth, by K. Arnold. GERVAN, por, Veroffentlichungen des Geodatischen Instituts in Potsdan, No 16, 1960, 66 pp. ACIC TC-1379

A Method of Refining of Uranium Ore in Japan, by Hideo KINOSHITA. JAPANESE, rpt, FAPIG, Tokyo, No 27, Aug. 1963, pp 121-127. AEC NSJ-Tr 8 Scientific Earth Sciences & Oceangraphy (Contd)

Uranium Resources of Japan. The Present State of Prospecting and Development, and the Future Aspect, by Motoo SATO.

JAPANESE, per, Japan Sci. Technol., Vol 6, No 12, 1965, pp 6-13.

*AEC NSJ-Tr 110

Hydrotechnics. POLISH, per, <u>Gospodarka Wodna</u>, Far 1967, pp 102-104. DIA LW 818-68

The bulletin of the Institute of Land Reclamation and Greenery Planting, by J. Krzyzanowski, 16 pp. POLISH, per, Gospodarka Hodna, Par 1967, p 115. DIA LN 813-68

Gravitation, by H. A. Lorentz.
RUMANIAN, per, Collected Papers, Vol 7, 1934,
pp 116-146.
*AFCRL

non Goological Maps of Rumenia Reing Prepared, by Marcian Bleahu, 12 pp.
RULAN IAM, per, <u>Progresole Stiintei</u>, No 5, 1ay 1968, pp 203-213.
JENS 45,940

Patterns and Statistical Relationships Concerning the Terms of the regnetic Anomaly in the Subcarpathians of Eastern Huntenia, by S. Airinei. RUNAHIAM, per, <u>Prospectiumi Geofizice</u>, Series D, No 5, 1966, pp 57-92.

ACIC TC-1369

Professor Lands Cyberneties, Recorded Computing, by Edmond Ricolan, 5 pp.
RULANIAN, np. <u>Vista Recorder</u>, 31 Nay 1968, p.9.
UPRS 45,960

The World Gravity Net, by E. E. Baglietto. SPANISH, per, Boletin de Informaciones Petroleras. No 345, Jul 1962, pp 772-798. ACIC IC-1401

Amothysts, Uruguay's Partially Exploited Health, by Mauricio Rosensof, 6 pp. SPANISH, np. Marsha, 24 May 1968, p 11. JPRS 45791 Earth Sciences & Oceangraphy (Couts)

Jeology of the Territory of most on the mosts of the Latest Jeophysical Resnarch and Drillings, by D. Likolic, D. Simin, JUGOSIAVIAN, per, Vesnik Zaveda za Geologka i Geofizicka Istrazivanja MR Srbije, Vely XVII, 1959, pp 47-59.

ACIC N-1373

Electronics & Electrical Engineering

Electrical Conductivity of a Plasma in a Strong Magnetic Field, by B. B. Kadomtsev and O. P. Pogutse
RUSSIAN, Report IAE-1416 Moscow, July 1967, pp 1-19.
NLL Ref: 9091.9F (CTO/428)

Television, by Yu. I. Omelyanenko, 205 pp. RUSSIAh, bk, Kiev. 1964, pp 280-363; 364-430; 656-680. DIA LI. 362-68

A Solution Search Algorithm for Functional Everywhere Defined and Subjective Homelogues, by G. K. Goranskiy.

AUSSIAN, per. AN ESSR. Institut Tekhnicheskov Kibernetiki, Wychialitelinaya Tekhnika v Hashinestroyenii, Nauchno-Tekhnicheskiy Sbornik, Minsk. 1936. pp 3-36.

*FPD-17-23-706-63

Theory of Amplitude Nuclear Pagnetic Resonance Converter, by A. L. Skripko, 13 pp. RUSSIAN, per, AN KiraSSR. Institut Avtomatiki. Fizioheakiye Natody Avtomaticheakogo Kontrolya, 1864, pp 24-36. F100164368

liigh-Speed Digital Computer for Processing of Geophysical Data, by V. L. Goncharov, RUSSIAN, per, All SSSR. Institut Fisiki Semli-Apparature 1 Netodika Sevenometricheskich Hablyudeniy, 1966, pp 152-159.

Invariance During Identification by Comparing a Description with a Sample, by V. A. Jakhonin, 7 pp. 7 pp. RUSSIAH, per, Al SSSR, Institut Problem Peredachi Informatalia, Openaniye Obrasov, Teoriva Peredachi Informatalia, 1965, pp 11-15. P100124968 FTD-:T-24-192-67

-86

HISTORIUS & BORGES

Theory of Electrical Domnine in Semiconductors with Not Electrons, by V. L. Busch-Brusvick.
MUSIAN, rpt, Add. SSSE Inst Endictath 1 Electron1966, 35 pp.
HIL Ref: 5809.51 (TIL/T.5710)

Cyclic Code Decoding with Double Code Correction, by V. D. Kolesnik, Ye. I. Mironchikov, 14 pp. RUSSIAN, per, Ai SSSR. Problemy Peredachi Informatsii, Vol 1, No 3, 1965, pp 86-96. P100156663-V FTD-HI-23-503-67

On Spontaneous Distinguishing of Patterns, by M. I. Shlesinger, 11 pp.
RUSSIAN, per, AN UKRSSR. Chitayushchiye
Avtomaty i Rasposnavaniye Chrasov, Naukova
Duska, 1965, pp 38-45. Pl00163468
FTD-HT-23-801-67

Recognition of Longhand-Written Characters by Years of a Tracking Scanner, by A. G. Semenovskiy, 13 pp. RUSSIAN, per, AN UKRSSR. Chitayushchiye Avtomaty i Raspoznavaniye Corasov, Naukova Dunka, 1965, pp 234-244. P100163468 FTD-HT-23-801-67

Application of an Alternating Electric Field in Thomson Mass-Spectrograph for Time Dispersion of Spectra, by V. S. Voytsenya.
RUSSIAN, per, AM UKrSSR, Issledovanive Plassennykh Sgustkov, Kiev, Naukova Dunka, 1967, pp 167-172.

•FTD-MI-244-68

A Study of Silicon Striin Gage a-c Operation in Static and Dynamic Hodes, by A. V. Sandulova. RUSSIAN, per, Ad UkrSSR. Poluprovidnikovava Tekhnika i Hikroelektronika, No 2, 1967, pp 23-29. *FTD-HT-23-686-68

Telemetry Butipment with Digital Reading, by I. I. Hikhaylov, 103 pp. HUBSIAN, bk. American Teleforerative & Thifrown Checheles, 1969, pp 1-123. Flore, 5068-V FID-R-66-68

Operating Experience with the "Dnipro" Control Computer in the National Economy, by L. A. Pilksvych. HUSSIAH, per, <u>Avtomotyka</u>, No 3, 1967, pp 87-91. eFTD-HI-23-744-683

Explorionproof Electrical Equipment for Acetylano-Air Hadia, by H. A. Belkov. HUBSIAN, per, <u>Bases Trude v Frampell</u>, Vol 10, No 9, 1966, pp 46-49. HIL Ref: 8313.4 (5406)

High-Speed Ferromagnetic Memory Units, by L. P. Kraysmer, 404 pp. RUSSIAN, bk. Bratroderstvurushohire Ferromanitmore Zapominavushohire Ustrovstva, 1964, pp 1-371. PLO0135268-V FTD-HT-66-62

Regulation of Motion Encounter Problem, by N. Krasovskiy, 7 pp.
RUSSIAN, per, <u>Doklady Akademii Mauk SSSR</u>, Vol 179, No 2, 1968, pp 300-303.
JPRS 45,913

Smitching Off and On an Auto-Transformer Off-Load by Heans of a 500 kv Isolator, by E. M. Bodrovski, Y. B. Radionov. RESSIAN, per, <u>Elekt Stantsii</u>, No 10, 1965, pp 59-64. NLL Ref: 3774.5 (1503)

Determination of Maximum Permissible Field Strength of Power Transmission Lines with Respect to Radio Interference, by L. S. Ferel'man. RUBSIAN, per, <u>Slekt Stants</u>, No 10, 1966, pp 62-65. HLL Raf: 8732 (1292)

Apparatus for Measuring the Earthing Resistance of Line Supports without Disconnecting the Cable, by S. B. Popov RUSSIAN, per, Elekt. Stantsii, Vol 37, No 11, 1966, pp 68-72.
NIL R-f: 9022.09 (4607)

Contactless Electric Mine Hulage, by H.A. Staroskol'ekii. RESEAM, per, <u>Elektrichestre</u>, No 4, 1956, pp 28-N. HIL Ref: 9022.09 (4085)

Precise Thermal Calculation of a Homogeneous Busitation Winding, by Ya. E. Vaciliev. HUBELM, per, <u>Elektrichertyn</u>, No 6, 1965, pp 39-1-55. HLL 9082.03 (3865)

Scientific
Electronics & Electrical Engineering (Contd)

Optimum Design of the Salient-Pole Rotor in a Synchronous Machine, by A. Avetisyan, A. I. Bertinov.
RUSSIAN, per, <u>Elektrichestvo</u>, No 6, 1965, pp 45-50.
NLL 9022.03 (3866)

Transformers with Magnetic Tap Changing of the Windings, by V. A. Troitskii.
RUSSIAN, per, <u>Elektrichestvo</u>, No 9, 1965, pp 64-67.
NIL Ref: 3774.5 (1492)

High-Coercivity Cobalt-Flatinum Alloys, by Y. A. Gratsianov, A. G. Rabin'kin. RUSSIAN, per, <u>Elektrichestvo</u>, No 10, 1965, pp 86-88.
NLL Ref: 9022.4 (67/50)

Calculation of the Stray Losses in Transformer Tanks, by A. A. Berezovskii.
RUSSIAN, per, <u>Elektichestvo</u>, No 9, 1966, pp 1-7.
NLL Ref: 9022.03 (4074)

Reducing the Stray Losses in the Tanks of Large Core-Type Reactors, by L. V. Leites, L. A. Mastryukov.
RUSSIAN, per, <u>Elektrichestvo</u>, No 9, 1966, pp 8-13.
NLL Ref: 9022.03 (1-075)

Influence of the Operating Voltage on Impulse Overvoltages in Transformer Windings, by S. D. Lisumov, A. V. Saposhnikov.
RUSSIAN, per, <u>Elekrichestvo</u>, No 10, 1966, pp 40-48.
NIL Ref: 9022.03 (4093)

Statistical Distribution of Switching Overvoltage Levels in Lines During Three-Phase Autoreclosure, by D. E. Artem'ev. RUSSIAN, per, <u>Elektrichestvo</u>, No 11, 1966, FP 3-7. NLL Ref: 9022.03 (4107)

Effectiveness of Circuit-Breakers with Two-Way Resistors for Limiting Switching Overvoltages, by Yu. M. Gusev, K. P. Kadomskaya. RUSSIAN, per, <u>Elektrichestvo</u>, Vol 11, 1966, pp 8-12. NIL Ref: 9022.03 (4108) Scientific Electronics & Electrical Engineering (Contd)

Locating the Earth Fault Point from Zero Sequence Currents and Voltages on Teed Transmission Lines, by M. P. Kozenknop RUSSIAN, per, <u>Elektrichestvo</u>, No 11, 1966, pp 17-22. NLL Ref: 9022.09 (4617)

Physical Reasons Why Some Brushgeat Materials Possess Good Commutation Characteristics, by P. S. Livshits RUSSIAN, per, <u>Elektrichestvo</u>, No 11, 1966, pp 74-77. NL Ref: 9022.09 (4638)

Investigation of the Effectiveness of the Partial Insulation of a Cast Squirrel Cage Rotor, by B. N. Chertok.
RUSSIAN, per, <u>Elektrotekhnika</u>, No 9, 1965, pp 27-31.
NIL Ref: 3774.5 (1463)

How to Obtain Increased Reliability in Oscillographic Flaw Detection at the Casting of Rotors of Asynchronous Machines, by V. A. Kolotii and A. K. Tutka
RUSSIAN, per, Elektrotekhnika, Vol 3, 1966, pp 53-54.
NLL Ref: 3630.48 (122)

Leakage Current Path, by R. Sztano RUSSIAN, per, <u>Elektrotechnika</u>, Vol 59, No 7, 1966, pp 301-305.
NLL Ref: 9022.09 (4708)

Standard Designs of Unit Series Transformer Substations, by A. N. Rosanova. RUSSIAN, per, <u>Energetik</u>, Vol 14, No 1, 1966, pp 6-9. NLL 9022.03 (3963)

Checking the Insulation Resistance of Generator Excitation Circuits, by R. A. Tret'yakova RUSSIAN, per, <u>Energetik</u>, Vol 14, No 12, 1966, pp 19-23.
NLL Ref: 9022.09 (4645)

Analysis of Antomatic Experimentation, by V. V. Pirogov, A. P. Ratniyaks, 21 pp. RUSSIAN, per, <u>Investive Alademii Mauk Latviyakov</u> SSSR, No 3, 1968, pp 40-53. JPRS 45772

TO THE POST OF THE SERVICE STATE OF THE SERVICE STA

Scientific Electronics & Electrical Engineering (Contd)

One Method of Increasing the Speed of a Digital Differential Analyser when Simulating Complex Power Systems, by P. G. Ali-Zade, 11 pp. RUSSIAN, per, Isvestiva. AN SSSR. Energetika 1 Transport, No 6, 1965, pp 37-41. Pl00149368-V FTD-HT-23-797-67

A D.C. Interrupter, by Yu. G. Tolstov and V. N. Bako RUSSIAN, per, <u>Izv. AN. SSSR Energ. 1 Transp</u>, No 3, 1966, pp 3-18. NLL Ref: 9022.09 (4636)

Certain Results of Investigating an Automatic System for Current Stabilization of Electric-Arc Gas Heaters, by A. M. Kruchinin. RUSSIAN, per, AN SSSR, Sibirskoye Otdeleniye.

Izvestiya, Seriya Tekhnicheskikh Nauk, No 1, 1967, pp 15-23; 45-46; 60-64; 65-69; 91-97; 102-111; 129-134; 135-138.

*FTD-NT-24-219-68

Shielding an External Field by a Hollow Oblate Ellipsoid, by S. I. Kurenev, M. G. Volkov, 6 pp. RUSSIAN, per, <u>Izvestiya Vysshikh Uchebnykh</u>

RUSSIAN, per, <u>Izvestiya Vysshikh Uchebnykh</u>

RUSSIAN, per, <u>Nauchnoptekhnicheskove Obshchestvo</u>

RUSSIAN, per, <u>Nauchnoptekhnicheskove Obshchestvo</u>

RUSSIAN, per, <u>Nauchnoptekhnicheskove Obshchestvo</u>

RHSSIAN, per, <u>Nauchnoptekhnicheskove</u>

RHSSIAN, per, <u>Nauchnoptekhnicheskove</u>

RHSSIAN, per, <u>Nauchnoptekhnicheskove</u>

RHSSIAN, per, FTD-IIT-23-820-67

Formulating Test Programs by Means of Digital Computers, by R. S. Gol'dman. RUSSIAN, per, IVUZ. Prioborostroenie, Vol 10, No 4, 1967, pp 77-79. *FTD-HT-23-530-68

Theoretical and Experimental Analysis of Disk-Type Delay Systems, by Z. N. Pasechnik.
RUSSIAN, per, IVUZ. Radicelektronika, Vol 10,
No 8, 1967, pp 831-835.
*FTD-HT-23-542-68

Aperture Limitations of the Efficiency of Optical Frequency Doublers, by S. A. Akhmenov RUSSIAN, per, <u>TVUZ. Radiofisika</u>, Vol 10, No 12, 1967, pp 1639-1655. WTD-HT-23-736-68

Soviet Space Television Systems, Chapter IV, by Petr Fedorovich Bratalavets, 20 pp. RUBSIAN, bk, Kosmicheskove Televidenive, 1967, pp 95-114. JPRS 45754

Scientific Electronics & Electrical Engineering (Contd)

Space Television System, Chapter V, by Petr Fedorovich Bratslavets, 17 pp. RUSSIAN, bk, Kosmicheskove Televidenive, 1967, pp 115-131. JPRS 45754

Status and Outlook for the Introduction of Computer Technology into the National Economy of the USSR, by V. Loskutov, 5 pp. RUSSIAN, per, Mekhanisatsiva 1 Avtomatisatsiva Proisvodstva, No 3, 1968, pp 55-56

Transistorised Digital Computer, by I. A. Bashmakov. RUSSIAN, rpt, Moskovskaya Konferentsiya Molodykh Uchenykh i Spetsialistov, lst. 1964, Kibernetika: Sbornik Trudov Konferentsii Moscog, 1967, pp 158-171. *FTD-MT-24-275-68

The Analysis of Electrically Steerable Phased-Array Antennas in the Presence of Mismatches Between the Radiators and tie Phasing Systems, by Yu. M. Bruk.

Principal Tasks and Trends in the Development of Automatic Process Control Systems, by S. Dumler. RUSSIAN, rpt, Nauchn. Tr. Mosk. Inshpekon, in-t, Vol 23, 1966, pp 38-52, *FTD-1:T-24-245-68

Minimal Programs, by I. R. Aksel'rod. RUSSIAN, per, <u>Nauchryv Sovet Po Kibernetiki</u>
AN USSR, Sektsiva Kibernetiki Kndtp, Seminar.
Algoritmicheskive Yazyki i Avtomatizatsiva Programmirivaniya, No 1, 1966, pp 63-79. *FTD-HT-23-538-68

Polarisation of Radar Signals, by B. B. Kanareykin. RUSSIAN, mon. Polyarisatetys Radiologistsicowykh. Signalov, 1966, pp 76-107, 205-240, 240-262, 262-296, 360-407.

*FTD-MC-24-363-68

Reproduction of Infralow-Frequency Electric Signals by a Hagnetic Tape, by A. I. Naydenov. RUSSIA, per, Pribory i Sistemy Upravlaniya, Vol h, 196h, pp 9-10.

TD-HT-23-730-68

Scientific Electronics & Electrical Engineering (Contd)

Application of the Electronic Computer "Minsk 22", by D. K. Margorin.
RUSSIAN, per, <u>Pribory i Sistemy Upravlenia</u>,
No 4, 1967, pp 28-29.
*FTD-HT-23-529-68

General-Purpose Analog-Digital System for Operational Data Processing in the Study of Objects with General-Purpose Digital Computers, by Yu. M. Bykov.
RUSSIAN, per, <u>Pribory i Sistemy Upravleniya</u>, No 7, 1967, pp 28-32.
*FTD-HT-23-704-68

Program of Physical Experiments on a 1000-GeV Cybernetic Proton Accelerator, by B. A. Dolgosheina, Yu. P. Nikitina.

RUSSIAN, bk, Programma Fizicheskikh Eksperimentov na Kiberneticheskom Uskoritele Protonov na Energiyu 1000 GeV, Radiotekhnicheskiy Inst, Mascow, Akademiya Nauk SSSR, 1967, 323 pp.

AEC-tr-6936

Programming for the M-20, EESM-3M, BESM-4, M-220 Digital Computers, by V. F. Lyashenko. RUSSIAN, bk, Programmirovaniye dlya Tsifrovykh Vychislitel nykh Mashin M-20, EESM-3M, EESM-4, M-220, Moscow, "Sovetskoye Radio", 1967, 431 pp. *FTD-MT-24-242-68

Special Purpose Teaching Machine (Type I), by N. V. Nekrasova.
RUSSIAN, bk, Programmirovannove Obuchenive Obucheyuive Mashiny Organizatsiya Uchebnogo proessa, Novosibirsk Electrotekhnicheskii Institut.
1966, pp 57-66.
*FTD-HT-23-550-68

Designing Magnetic Elements and Devices of Electronic Computers, by Ye. P. Balashov. 264 pp. RUSSIAN, bk, Proyektirovaniye Magnitnykh Elementov i Ustroystv Elektronnykh Vychislitel'nykh Mashin, 1864, pp 1-291. Pl00150068-V FTD-NT-66-71

Occupating Production Capacity Using Punched-Card Machines, by A. P. Eogan.
RUSSIAN, per, Respect Projectority Description of the Property Projector Community Pri Punched School School Performance Health.
Roskya. Statistica, 1966, pp 3-9.

Scientific
Electronics & Electrical Engineering (Contd)

Evaluating the Quality of Digital Automata, by Ye. A. Drozdov.
RUSSIAN, rpt, Sb. Tsifr. Vychisl. Tekhn. 1
Programmir. M., "Sov. Radio", Vol 1, 1966, pp 49-58.
*FTD-HT-23-548-68

Algorithmic Synthesis of Sampled-Data Computational Davices, by I. V. Ilovayskiy.

RUSSIA!', rpt, Sb. Vychisl. Sistemy. Vyp 25.

Novosibirsk, "Nauka", 1966, pp 3-17.

*FTD-MT-24-292-68

Magnostics of Digital Devices Working with Omissions, by A. K. Clefir.
ROSSIAN, rpt, 5b Vyohial Sistem, Vol 25, 1966, pp 31-43.
*FTD-MT-24-266-68

High-Productivity Computing Systems, by B. V. Yevreinov. RUSSIAN, rpt. Simposium po Probleme "Vrohislitel'nyve Sistemy." Novosibirak. 1966. Vrohislitel'nyve Sistemy: Trudy Simposium. 1967, pp 5-12. *FTD-MT-24-254-68

Reliability of Iterative Universal Computing Systems with an Allowance for Switchover Time, by V. G. Khoroshevskiy.
RUSSIAN, per, Simpozium po Probleme "Vychislitel' nye Sistemy Novosibirsk, Vychislitel'nye Sistemy: Trudy Simposiums. Novosibirsk, Izd-vo "Nauka".
1967, pp 13-23.
*FTD-HT-23-549-68

Linear Iterative Digital Control System, by No. K. Dimitripev. HUSSIAN, per, Simponium po Probleme Vychialital' hyre Sistemy, Howesthirek, 1906, Vychialital'hyre Sistemy: Trudy Simponiuma, Hovesthirek, Ind. vo. "Manka", 1967, pp 36-43. *FID.HT-23-707-68

Theoretical Problems Associated With the Joint Operation of Standard Computers as a Single System, by D. A. Pospelov.

RUSSIAN, rpt, Simposium po Problems "Vychislitelmyve Sistemy, Novosibirek; Trudy Simposiums, Isd-vo "Nauka", 1967, pp 56-62.

#TD-MT-24-304-68

Combining Computers for Joint Operation, by G. P. Halmrov. ROBELAN, rpt., Stamonton ps Problems "Vehicalital'nove Statest," Hoveribles, 1966, Vehicalital arra Statest, Truty Stamonton, 1967, pp 72-77.

Scientific
Electronics & Electrical Engineering (Contd)

Estimate of Performance Indices of One Computer System, by A. K. Romanov. MUSSIAN, rpt, Simposium po Probleme "Vychislitelnyye Sistemy" Novosibirski Trudy Simposiuma. Novosi irsk, Izd-vo, "Nauka", 1967, pp 79-84.

Analysis of the Structure of Parallel Algorithms Which are Realized on an Iterative Computing System, by D. N. Kiknadze.

RUSSIAN, per, Simpozium po Probleme "Vychislitel" nyye Sistemy Novosibirsk, Vychislitel"nyye Sistemy Trudy Simpoziums. Novosibirsk, Izd-vo "Nauka", 1967, pp 89-96.

*FTD-HT-23-549-68

Some Matheds for Constructing Iterative-Circuit Computers, by T. V. Knasvkina.

RUSSIAN, rpt, Simposium po Probleme "Vrohislitel'nove Sistemy." Nevesibirsk, 1966, Vrohislitel'nove
Sistemy: Truty Simposium, 1967, pp 165-171.

*FID-M-24-264-68

New Standards for Tape Recorders, by Ye. I. Nekrylov, 8 pp. RUSSIAN, per, <u>Standarty i Eachestvo</u>, No 2, 1968, pp 28-31. JPBS 45767

Preduction Planning in Shippards with the Aid of Electronic Computers, by A. M. Chelmokov, V. N. Eurovakii.
RUBSIAN, per, <u>Sudostroenie</u>, No 8, 1965, pp 53-NLL 9022.065 (2397)

Technology of Manufacturing Electronic Computer Units, by N. I. Fadeyev. RUSSIAN, mono, <u>Tekhnologiya Proizvodstva Uzlov</u> <u>Elektronnykh Vychislitel'aykh Mashin</u>, Moscow, Mashinostroyeniye, 1967, 310 pp. *FTD-MT-24-233-68

Digital Correlator DE-2, by N. S. Chakhirov, A. N. Basilashvili, 12 pp. RHSSIAN, per, Truty, AN GRUESSR, Institut Elektrondit, Artematiki 1 Telemakhaniri, 1964, pp 133-IAL. Plottley/68-V FTD-ME-84-290-67

Pattern-Recognition Hethods Applied to the Problem of Noise-Proof Decoding, by V. A. Andreyev. RUSSIAN, per, Trudy. Leningred. Politekhniobeskiy Institut. Trudy no 275, 1967. Teoriya i Tekhnika Vychialitel'nykh Ustroystv. No i, 1967, pp 43-48. *FTD-HT-23-527-68 Basic Construction Principles of the RER-2 Analog-Digital Computer, by S. A. Ginzburg. 15 pp. RUSSIAN, per, Trudy Vsesoyznogo Nauchno-Issledovatel'skogo Instituta Elektronenergii, No 18, 1964, pp 88-98. P100150768-V FTD-MT-66-161

General Purpose Control Machine, the INIPRO, and Its Compiler, by Ye. L. Yushchanko, B. N. Malinovskiy, 241 pp.
RUSSIAN, bk., <u>Dorevlyayushchaya Mashine Shirokogo Nagnacheniya "DNIPRO" i Programmiruyushchaya Programma k New</u>, 1964, pp 1-280. Floo148968-V FTD-MT-66-102

Rotor Materials for Hysteresis Motors, by L. Sh. Kazatnovskii RUSSIAN, per, <u>Vestnik Elektroprom</u>, Vol 29, No 1, 1958, pp 48-56. NLL Ref: 9091.9F (Risley 1402)

Shielding Radar from Non-Synchronous Pulse Noise, by A. G. Luzan, 8 pp. RUSSIAN, per, <u>Vestnik Protivovozdushnoy Oborony</u>, No 5, 1968, pp 61-64. JPRS 45,950

Measurement of the Radiation Bandwidth of Radio Transmitters in the Frequency Range of 10 Ke/s to 30 Me/s, by N. S. Tarasov, A. P. Ravlyuk. RUSSIAN, per, <u>Vestnik Syvani</u>, Vol 26, No 12, 1966, pp 6-8. HLL Ref: 9022.81 (2392)

Electronic Switch, by O. F. Radutskiy.

B. S. Polunin, 2 pp.

RUBSIAN, Ratunt 167360 (866464/26-24) Class 42m.

1402, 21a'm 3602, pp 1-2. F100138068

FTD-HT-66-667

Decoder, by T. P. Belaya, 7 pp. RUSSIAN, <u>Patent No 168532</u>, 9 Jul 1963, 7 pp. P100158668-V FTD-HT-67-307

An Introduction to Analog Computers, by Liu Hsien-min, 6 pp. CHINESE, per, <u>Tien Tsu Chi Shu</u>, No 6, 1965, pp 31-32. P100158868-V FTD-HT-67-241

Program Library for the 103 Electronic Computer, 50 pp.
CHINESE, per, 103 Tien Tzu Chi Suan Chi Chieng Hsu Hui Pien Hsiu Ting Pen (Rev. Ed. Peking, Kio Hsueh Chiu Pan She), 1965, pp 41-171.
P100155068-V
FTD-HT-67-459

The Development of an Electronic Root Solver, by Shuech Bin-wei, You Jong-en, 12 pp. CHINESE, per, Tzu Tung Hua Hsueh Pao (Acta Automatica Sinica), Vol 3, No 3, 1965, pp 151-157. P100158068-V FTD-HT-67-418

Asynchrous Sequential Machine with a Prodetermined Degree of Reliability, by Men-chen Lin, 16 pp. Chilless, per, Tru Tung Hua Hsueh Pao, Acta Automatica Sinica, Vol 4, No 1, 1966, pp 37-45. P100157068-V

Czechoslovak Computers Listed and Discussed, by E. Storba, L. Obruca, 7 pp. CZECL, per, <u>lioderni Rizeni</u>, 30 Apr 1968, pp 44-49. JPRS 46,063

How Computer Technology is Used in CSSR, by Vaclav Blaha, Antonin Harasek, 7 pp. CZECH, per, Hoderni Rizoni, 30 Apr 1968, pp 53-56. JPRS 46,063

Information System in the CKD in Integrated, by I. Brand, R. Malir, S pp. CZECE, per, moderni Rizoni, 30 Apr 1968, pp 76-80. CPRS 46,063

A Theorem Concerning Electrically Anistropic Space and its Applications to Electrical Prospecting in Direct Current, by Raymond Faillet, d. Doll.

FRENCH, per, Ergangungshefte Fuer Angewandte Geophysik, Vol 3, 1932, pp 110-124.

ACSI J-5158
FETC-HT-23-260-68

Electrically Operated Chronometer Escapements. New Transistor Applications, by M. Lavet. FRENCH, per, Revue Generale de L'Electricite, Vol 68, No 3, 1959, pp 191-201. NLL Ref: 5207 (1248)

Scientific Electronics & Electrical Engineering (Contd)

Industrial Prototype of Current Transformer Using Magneto-Optic Effect, by Y. Pelenc and G. Bernard
FRENCH, per, Rev. Gen. Elect, Vol 76, Nos 7/8, 1967, pp 1055-1064.
NLL Ref: 9022.09 (4732)

40,000 Photographs/Sec Reveal the Rupturing Process on Fuse Elements of Low Voltage High Rupturing Capacity Fuses, by C. Wehrle GERMAN, per, AEG Mitteilungen, Vol 48, No 4/5, 1958, pp 211-215.
NLL Ref: 3774.5 (1722)

Types of Low-Voltage High Rupturing Capacity Fuscs, by C. Wehrle GERMAN, per, AEG Mitteilungen, Vol 48, Nos 4/5, 1958, 215-217.
NLL Ref: 3774-5 (1739)

On the Synthesis of Reactance Quadrupoles with Specified Time Behavior, by Rolf Unbehauen, Hermann Griesinger, 19 pp.

GERMAN, per, Arch Elek Ubertrag, Vol 21, No 4, 1967, pp 161-169.

AEC-ORNI-Tr-1917

Experience in Planning and Commissioning Automatic Start-Up Equipment in Steam Power Stations, by F. Bergmann GERMAN, per, Brennst. Warme Kraft, Vol 18, No 12, 1966, pp 593-600. NLL Ref: 9022.09 (4664)

Crimp Type Sockets for Solderless Connections Non-Insulated. GERMAN, rpt, DIN 46 234 German Standard. NLL Ref: 9022.09 (4782)

Low-Voltage Contactless Switching Using Thyristors, by K. Heumann and F. Koppelrann, GERMAN, per, E.T. Z. Vol 86A, No 17, 1965, pp 552-557.
NLL Ref: 5207 (1254)

Optimum Relationships for Hysteresis Notors by N. Z. Mastyaev and I. N. Orlov GERNAN, per, <u>Elektrichestvo</u>, No 7, 1962, pp 51-58. NLL Ref: 9091.9F (Risley 1398)

The Optimum Field of Application for Two-Frame Transformer Cores, by A. G. Kraiz GERMAN, per, <u>Elektrichestvo</u>, No 5, 1967, pp 67-70.
NLL Ref: 9022.03 (4225)

Extension of the Gelderland Station of the N.V. FGEM Preparations for Start-Up of Sets 11 and 12 of the Gelderland-Zuid Station, by K. Gorter and A. F. van den Hoven GERMAN, per, Electro-Technik, Vol 43, No 1, 1965, pp 1-10.
MLL Ref: 9091.9F (Risley 1410)

Possibilities of Rescue in Low-Voltage Accidents, by F. A. Lauerer GERMAN, per, <u>Elektrotech. und. Maschinenbau</u>, Vol 83, No 3, 1966, pp 199-203. NLL Ref: 9091.9F (Risley 1383)

Synchronous and D. C. Machines Incorporating Rectifiers and Having Rotors Without Windings, by A. Grabner.

GERMAN, per, Elektrotech und Masch, Vol 83, No 11, 1966, pp 577-58?.

MIL Ref: 3774.5 (1707)

Magnetic Noise from Synchronous Machines, by H. Jordan GERMAN, per, <u>Elektrotechnik und Maschinenbau</u>, Vol 84 No 1, 1967, pp 1-8. NLL Ref: 9022.09 (4653)

Harmonics, Ripple and Interference Voltage in Converters, by H. Jungmichl GERMAN, per, Elektrotechn. Zeit, Vol 58, No 16, 1937, pp 417-420.
NLL Ref: 3774.5 (1725)

Heasurement of the Conductivity and Dielectric Constants of Biological Tissues and Fluidity with Short Meves, by K. Ceswald. GERMAN, per, <u>Hochfrequentstechnik und Elektroakustik</u>, Vol 49, 1937, pp 40-49. P944226868-V NSTIC-Trans-1836

Electrophoretic Coatings of Solids and Synthetic Resins, by J. Fichtner GERMAN, per, <u>Industrie-Anseiger</u>, Vol 89, No 88, 1967, pp 19-21. NLL Ref: 9022.4 (67/388)

Scientific Electrical Engineering (Contd)

Production of a Butterworth Low Pass Filter with Very Low Cut-Off Frequency, by Means of RC Elements and Bridging Amplifiers, by D. Plate GERMAN, per, Internationale Elektronische Rundschau, Vol 19, No 12, 1965, pp 689-691.
NIL Nef: 3774.5 (1694)

Chimneys for Future Power Stations, by W. Gotzen
GERMAN, per, Mitteilungen V.G.B., No 105, 1966, pp 391-394.
NLL Ref: 9022.09 (4766)

Practical Possibilities in the Design and Realisation of Solid=State N-Channel Filters, by J. Zim., F. Hejsek, 15 pp. GERMAN, per, Nachrichtentechnik, No 8, 1965, pp 323-327. Flool32268-V FTD-HT-67-296

An Integrated Digital Communication System - The Telephone System of the Future, by M. Bohringer GERMAN, per, Nachrichtentechnik, Vol 17, No 5, 1967, pp 173-176.
NIL Ref: 9022.81 (2442)

Electronic Equipment Exhibited at Leipzig Fair, 7 pp. GERMAN, per, <u>Nachrichtentochnik</u>, No 6, June 1968, pp U41-U46.
JPRS 45,940

Active Aerials, by H. Meinke GERMAN, per, Nachrichtentech. Zeit, Vol 19, No 12, 1966, pp 697-705. NLL Ref: 5207 (1242)

Simplified Test Procedure for 60 Cycle Motors Protected by the "Increased Safety" Method, by H. Dreier and U. Engel ORTHAN, per, PTB Mitteilungen, Vol 77, No 5, 1967, pp 393-394. NLL Ref: 8313.4 (5576)

Further Results of Electro-Optical Measurements on Television Receivers, by H. Bismark and F. Dollinger GERMAN, per, Radio Mentor, Vol 9, 1967, pp 704-711. NLL Ref: 9022.81 (2452)

The Heating and Power-Carrying Capacity of Overhead Power Supply Lines for Railways, by H. Merz GERMAN, per, Schweizer Archiv, No 33, 1967,

pp 189-215. NLL Ref: 9022.4 (67/395)

Quenching and Re-Ignition of Circuit-Breaker Arcs, by W. Rieder, J. Pretl.
GERMAN, per, <u>Scientia Electrica</u>, Vol 11, No 2, 1965, pp 33-48.
MLL Ref: 9022.09 (4630)

Colour-Coding Methods in Cable Technique, bu H. Stiltz CERMAN, per, SEL Nachrichten, Vol 14, No 1, 1966, pp 18-23. NLL Ref: 9022.81 (2299)

Energy Storage Capacitors, by W. Held GERMAN, per, Siemens Zeitschrift, Vol 41, 1967, pp 887-895. NLL Ref: 5828.4F (12829)

The Breakdown Voltage of Diffused pn Junctions in Silicon, by W. Monch GERMAN, per, Solid State Electronics, Vol 10, 1967, pp 1085-1092.
NLL Ref: 3774.5 (1716)

The Development of Maximum-Capacity Generators, by K. Wanke.
GERMAN, per, <u>YDE Fachberichte</u>, Vol 24, 1966, pp 89-100.
NIL Ref: 3774.5 (1705)

Composite Enterials and Their Application for Electrical Contacts, by H. Schreiner. GERMAN, per, <u>Zeit fur Hetallkunde</u>, Vol 58, 1967, pp 600-605.

NLL Ref: 3774.5 (1714)

MAC-1 Electronic Analogue Computer, by A. Petrescu HUNGARIAN, per, <u>Automatica Si Electronica</u>, Vol 10, No 4, 1966, pp 160-164. NLL Ref: 3774.5 (1717) Scientific Electrical Engineering (Contd)

The Production of Bright Palladium Deposits, by E. Erdos, F. Hasko.
HUNGARIAN, rpt, <u>Electroplating Sayposium, Society of Mechanical Engineers, Budapest</u>, Dec 1966, 11 pp. NLL Ref: 9022.4 (67/43)

Electrodeposition of Flatinum and Flatinum Alloys with a View to Increasing Hardness, by G. Hansel. HUNGARIAN, rpt, <u>Electroplating Symposium</u>, <u>Society of Mechanical Engineers</u>, <u>Budapest</u>, Dec 1966, 13 pp. NIL Ref: 9022.4 (67/44)

Data on the Development of High Tension Distributors and Future Tasks in the Field, by K. Ferenc, 21 pp.

HUNGARIAN, per, Magyar Elektrotechnika Egyesulet, No 12, 1967, pp 544-553.

DIA LN 758-68

Digital Correlator Developed by Instrument Factory, by T. Nagypal, I. Szunyogh, 5 pp. MUKGARIAH, per, Keres es Automatika, No 5, Nay 1968, pp 205-207.

JPRS 46,063

Rectifier Units ITALIAN, per, <u>L'Elettrotecnica</u>, Vol 54, No 4, 1967, pp 296-302. NLL Ref: 3774.5 (1726)

Impulse Breakdown of Air Gap in Nonuniform Field, Part 1, by S. Wada and F. Nemoto JAPANESE, per, Denko Shiken-sho Iho, Vol 29, No 7, 1965, pp 15-21.
NLL Ref: 9022.09 (4642)

On the Application of a Speech Clipper to an SEB Radio Telephone System Using VODAS, by Y. Tsuruoka JAPANESE, per, <u>Denko Tsushin Gakkai Zasshi</u>, Vol 45, No 9, 1962, pp 1211-1215. NLL Ref: 6180.59 (1904)

A Method of Automatic Washing of Salt Contaminated Insulators, by T. Misaki and O. Kato JAPANESE, per, Trans. Soc. Instrum. Control Engrs., Vol 2, No 4, 1966, pp 257-261.

MLL Ref: 9022.09 (4641)

Analog Computer of the Department of Control Theory, by O. Palusinski. 13 pp.
POLISH, per, Gliwice, Politechnika Slaska,
Zeszyty Naukowe, Automatyka, No 6, 1965,
pp 145-158. P)00158268-V
FTD-HT-67-425

Complex Automation by Electronic Computers of the Heavy Plate Rolling Mills of the Siderurgic Combine "Gheorghe Gheorghiu-Dej" in Galati, by D. Damsker, 19 pp.

RUMANIAN, per, Automatica Si Electronica, Vol 9, No 2, 1965, pp 52-59.

P100155068-V

FTD-HT-67-152

Current Swedish Telec. Technology and Electronics. SWEDISH, per, <u>Elteknik</u>, May 1967, pp 78-86. DIA LN 126-68

Energy Conversion (Non-Propulsive)

Equation of Motion for an Internal Combustion Engine as a Controlled Unit, by V. E. Erutov. RUSSIAN, rpt, <u>Automatic Control of the Internal</u> <u>Combustion Engine, Moscow</u>, 1958, pp 229-236. NLL Ref: 3774.5 (1530)

Engines of Unseen Velocities, by K. A. Gilsin. RUSSIAN, bk, <u>Dvigateli Nevidannykh Skorostey</u>, 1965, pp 331. **TD-MT-24-303-68

Causes of Damge to the AT-25 Turbine Thrust Bearing, by L. P. Sereshkins, A. I. Ranfilova. RUSSIAN, per. <u>Elekt Stantell</u>, Vol 37, No 3, 1966, pp 79-82. HIL Ref: 9022.09 (4475)

Deproving the Reliability of TGV-200 Turbogenerator Seals, by Ma. I. Kufman, V. P. Gumin. RUSSIAN, per, <u>Elekt Stanteil</u>, Vol 37, No 6, 1966, pp 39-43.

HIL Ref: 9022.09 (4487)

A Whter-Operated Governor System for Steam Turbines, by V. H. Veller. MUSIAH, per, <u>Respectik</u>, Vol 13, No 4, 1965, pp 6-9. HIL 9022.03 (3839) Scientific
Energy Conversion (Non-Propulsive) (Contd)

The 500-MW Generator of the Khar'kov Factory "Elektrotyashmash", by L. Ya. Stanislavskii, T. A. Chigirinskii.
RUSSIAN, per, <u>Energetik</u>, Vol 14, No 9, 1966, pp 15-18.
NLL Ref: 9022.03 (4082)

Better Organisation of Capital Repairs at Electric Power Plants, by P. K. Oreshidn, 5 pp. RUSSIAN, per, <u>Energetik</u>, No 4, 1968, pp 2-4. JPRS 45766

Operation of 150, 200 and 300 Magawatt Units in 1966 and 1967, by L. I. Kudryashova, 5 pp. RUSSIAN, per, <u>Energetik</u>, No 4, 1968, pp 36-37. JPRS 45766

Aerodynamic Investigation of Steam Turbine Governor Valves, by A. M. Zaslavskii. RUSSIAN, per, <u>Energomashinostroenie</u>, Vol 12, No 10,1966, pp 18-22. NIL Ref: 9022.03 (4094)

Stressed State and Strength of Half-Open Radial Turbine Wheels, by Ya. M. Gusak.
RUSSIAN, per, Energomashinostroyeniye, No 5, 1967, pp 18-20.
*FTD-HT-23-670-68

Full Scale Energy Tests on the Turbines of the Utob-Kurgansk Rydro Electric Power Station, by V. S. Serkov.
RUSSIAN, per, Gidrotekh Stroit, No 11, 1965, pp 24-30.
NLL Ref: 3774.5 (1391)

The Present Situation and Long Range Plans for the Use of Electronic Energy, by V. G. Kholmoldy. RUSSIAN, per, IVUZ. Energetika, No 10, 1967, pp 29-39. FID-Mr-28-259-68

The Effects of Hanufacturing Tolerances of Impallar Components on the Characteristics of a Pump Stage, by D. In. Aleksapel'skiy.
RUBSIAN, rpt, Kharkov. Politekhuloheskiy Institut.
Respectioheskova Hashinostrovaniva. Gidroturkiny
i Brustve Gidromaskiny, No 2, 1966, pp 12-18.
*FTD-M-23-601-68

Scientific
Energy Conversion (Non-Propulsive) (Contd)

MiD Generators, by K. I. Kim.
RUSSIAN, per, Neustoychivost Relaya-Teylora v
Zhidkometallicheekiih Sinkhronnykh MiD Generatorakh
1 Sposoby Yeye Stabilizatsii, SM 107/177, pp 1-12.
4770-MT-24-174-68

MD Generators, by N. M. Ckhremenko.
RUSSIAN, per, Optimalniye Geometricheskiye
Sootnomeniya v Koaksialnom Lineynom Inluktsionnom
MD-Generatore, S/M 107-17h, pp 1-21.
#FTD-MT-24-173-68

Problem of Using a Difference Method for Analyzing Turbine Stage Performance Under Variable Regimes, by A. M. Topunov.

RUSSIAN, per, Sudostroyeniye, No 12, 1963, pp 29-32.

#FTD-HT-23-738-68

Method of Determining the Performance of Imbricants With Additives Using the IKM-1 Machine With a Four-Cycle Air-Cooled Carburetor Engine, by V. F. Filippov.

RUSSIAN, rpt, Tr. Vses. n. -i. In-t po
Pererabotke Nefti, Vyp 10, 1967, pp 266-289.

*FTD-MT-24-299-68

Two-Stage Starting of Gas Turbine Aircraft Engine, by N. S. Naumav.
RUSSIAN, Patrit No 157178, Class 46.
*FTD-HT-23-44-68A

Plane Aerotynamics Chamber, by N. N. Chernov, V. G. Korn yev, 2 pp. RUSSIAN, Patent No 169269, 24 Jan 1964, 2 pp. P100157268-V FTD-HT-67-94

Lead Acid Storage Battery, by V. G. Beloserov. RIBSIAN, Retent No 202260, Class 21.

Covering Peak Loads by Overloading Steam Turbines, by J. Tros. CEECH, per. Prace CVUT Prace, Vol 2, No 3, 1964, pp 43-50. MIL Ref: 9022.09 (4640)

Measurement of Heat Flows in Boiler Combustion Chambers, by V. Libich and M. Rabas CZECH, per, <u>Strojirenstvi</u>, Vol 15, No 12, 1965, pp 932-937.
NLL Ref: 9022.09 (4601)

Scientific
Energy Conversion (non-propulsive) (Contd)

The Super-Charging of 4 Stroke High Speed Diesel Engines Intended for Use at Altitude by M. Monteil, FRENCH, per, Entropie, No 16, 1967, pp 102-112. NLL Ref: 3774.5 (1723)

Aerodynamic Damping of Vibrations in Blades in Water Turbines, by R. Legendre. FRENCH, rpt, Paper No 107. D'Etudes et de Recharges Aero-Spatiales.

Tech, 1967.
NLL Ref: 3774.5 (1727)

Problems of Cooling Water Treatment in a Generating Station with Atmospheric Cooling, by A. Brandel and L. Dupont, FRENCH, per, Rev. Gen. Therm. Vol 5, No 8, 1966, pp 779-787.

NLL Ref: 9022.09 (4594)

On the Efficiency of MHD processes with Injection Condensation, by W. Oldekop, D. Rex.
GERMAN, per, Advanced Energy Conversion, Vol 7, pp 137-157, 1967.
AEC AI-Tr-263

Semiconductor Detectors and Their Applications, by H. Jungclaussen, 75 pp.

(ERNAN, per, Kernenergie, Vol 8, No 9, 1965, pp 514-541. Plooi64168

FTD-HT-67-144

Reducing Noise of Steam Discharges in Thermal Power Stations, by E. Hirsch. HUNGARIAN, per, <u>Respite of Atomtochnika</u>, Vol 18, No 12, 1965, pp 557-561. NLL Ref: 9022.09 (4625)

Rapid Response Thermometer Wells for Steam Temperature Measurement in the Piping of Electric Power Flants, by F. Cerny. POLISH, per, <u>Energetika</u>, Vol 15, No 4, 1965, pp 178-186. NLL Ref: 6075.461 (1880)

Cable, Conductor 1968 Domestic Supply Presented, 13 pp.
POLISH, per, Gospedarka Katerialowa, No 8, 1968, pp 302-307.
JPRS 45,940

Scientific
Energy Conversion (Non-Propulsive) (Contd)

Improvement of the Power Factor at the Consumer Level and in the Grid, by G. Panaitescu, M. Graniceanu, 8 pp.
RUMANTAN, per, Energetica, No 4, 1968, pp 151-155.
JPRS 45735

Materials

New Types of Pol Mer Binders for the Preparation of Fiber Reinforces Plastics of the SVAM Type, by L. E. Brusentsova.

RUSSIAN, per, AN SSSR. Institut Khimicheskov
Fiziki. Laboratoriya Armirovannykh Plastikov.

Fiziko-Khimiya i Mekianika Oriyentirovannykh
Steklo-Plastikov, Moscow, Izd-vo "Nauka", 1967,
pp 43-48.

*FTD-HT-23-543-68

Modification of the Adhesive Properties of Polymer Fibers Through the Grafting of Vinyl Monomers, by A. I. Kurilenko.
RUSSIAN, per, Ali SSSR. Institut Khimicheskov Fiziki. Laboratoriya Armirovannykh Plastikov.
Fiziko-Khimiya i Mekhanika Oriyentitovannykh Steklo-Plastikov, Moscow, Izd-vo "Nauka", 1967, pp 90-94.
*FTD-HT-23-543-68

Adhesion of Epoxy Resings Against Thin Steel Fibers, by G. D. Andreyevskaya. RUSSIAN, rpt, AN SSR. Institut Khimicheskoy Fiziki. Laboratoriya Androvennykh Plastikov. Fiziko-khimiya i Mekhanika Oriyentirovennykh Steklo-plastikov, 1967, pp 95-100.

PFID-NI-24-239-68

Basic Questions Concerning the Lechanics of Monolithic Oriented Glass-Reinforced Plastics, by A. L. Rabinovich.
RUSSIAN, per, AN SSSR. Institut Khimicheskoy
Fisiki. Laboratoriya Armirovannykh Plastikov.
Fisiko-Khimiya i Mekhanika Oriyentirovannykh
Steklo-Plastikov, Moscow, Isd-vo "Mauka", 1967,
pp 101-110.
*FTD-HI-23-543-68

Scientific Materials (Contd)

The Heat Resistance and Physico-Chemical Properties of Multicomponent Nickel Alloys, by L. A. Ryabtsev. RUSSIAN, per, AM SSSR. Institut Fetallurgii.

Struktura i Svoystva Zharoprochnykh Fetallicheskikh Materialov, Moscow, Izd-vo "Nauka", 1967, pp 143-147.

*FTD-HT-23-681-68

Some Aspects of the Behavior of Refractory Alloys During Cyclically Varying Temperatures, by V. I. Prosvirin.

RUSSIAN, per, AN SSSR. Institut Metallurgii.

Struktura i Svoystva Zharoprochnykh Metallicheskikh Materialov, Moscow, Izd-vo "Nauka", 1967, pp 172-176.

*FTD-HT-23-687-68

High-Temperature Resistant Copper Alloys, by A. M. Korol'kov. RUBSIAN, rpt. AN SSSR. Institut Metallurgii. Strukture i Svovetve Zharoprochurkh Metallicheskikh Materialov, 1967, pp 300-305. *FTD-HT-23-636-68

Patterns of Long-Term Orditaion of Heat-Resistant Steels and Alloys, by N. N. Koslova.
RUSSIAN, rpt, AN SSSR. Institut Netallurgii.
Struktura i Svoystva Zharoprochnykh Netallicheskikh Materialov, Isd-vo "Nauka", 1967, pp 306-312.
WTD-NT-23-741-68

Investigation of Two-Component Heat-Resistant Coatings Based on Silicon on Nickel Alloys, by G. V. Zemskov.
RUSSIAN, rpt, AN SSSR. Institut Metallurgii.
Struktura i Svoystva Zharoprochnykh Metallicheskikh Materialov, Isd-vo "Neuka", 1967, pp 323-330.

Surface Hardening of Titanium with Mitrogen and Carbon by High-Frequency Induction Heating, by Yu. B. Grdine.
RUBSIAN, rpt, AN UndSR. Inst. Probl. Haterial-oped, 1965, pp 109-115.
*FID-H-23-632-68

Gas Corrosion of Nickel Alloys and Their Protective Coatings, by K. I. Lutsenko.
RUSSIAN, per, AN UKRSSR. Institut Problem Materialovedeniya. Zashchitnyye Pokrytiya na Metallakh.
Kiev, Izd-vo "Nauka", No 1, 1967, pp 149-152.
*FTD-HT-23-680-68

Formula for Calculation of Petroleum Oil Viscosity at Low Temperatures, by Sh. S. Gadzhiev. RUSSIAN, per, Azerb. Neft. Khoz., Vol 45, No 9, 1966, pp 39-40. *FTD-HT-23-544-68

The Explosibility of Dust from Combustible Shale During Shotfiring Operations, by G. M. Golovin, L. K. Savrasov.
RUSSIAN, per, Besop Truda v Promyshl, Vol 10, No 7, 1966, pp 42-43.
NIL 8313.4 (5371)

Ukraine Raises Production of Synthetic Resins and Flastics, by V. Kalechits, V. Bogolyubov, 6 pp.
RUSSIAN, per, <u>Managaka Sovetskov Ukrainv</u>.
No 2, 1968, pp 14-17.
JPRS 45762

Corrosion in Brass Condenser Tubes, by B. A. Shiwankskii. RESTAN, per, <u>Flekt Stantell</u>, Vol 36, No 9, 1965, pp 15-18. NLL 9022.03 (3904)

Browin and Protection of Metals, by L. A. Vrvantsov. RUSSIAN, bk, <u>Browins i Easbabits Notellove</u>, <u>Machinostrovenive</u>, 1966, pp 55-117. *FTD-MT-24-269-68

lechanism of the Effect of Phosphorous and Molybdenum Impurities on Temper Brittleness of Steel, by V. I. Arkharov.
RUSSIAN, par, <u>Fisika Hetallov i Hetallovedenive</u>, Vol 2, Issue 1, 1956, pp 57-65.
#ACSI J-5119
FSTC-HT-23-289-68

Choice of Selective Transparent Insulation Neterial, by V. A. Baum, A. V. Sheklein, 11 pp. RUSSIAN, per, Geliotekhnika, No 2, 1968, pp 50-57. JPRS 45,874

Scientific Materials (Contd)

Cathode Protection against Corrosion-Cavitation Attack, by M. S. Trifel RUSSIAN, per, Gidrotekh. Stroit, Vol 2, 1967, pp 7-11. NLL Ref: 3774.5 (1596)

Corrosive Influence of Diphenyl on Metals and Oxides, by Yu. F. Bychkov, I. D. Iaptev, 16 pp. RULLIAN, bk, Gosudarstvennyv Kondtet Po Ispol'sovaniyu Atomov Energii SSSR. Issledovaniya Po Primeneniyu Organicheskikh Teplonositaley Zamedlitaley V Energeticheskikh Reaktorski, 1964, pp 151-163. Pl00131868-V FTD-MT-66-123

Production of Beta-Modification of Silicon Carbide Alloyed by Various Additions, by in. K. Prokof'eva.

RUSSIAN, per, Gos. Hauch-Issled. Proektn. Inst. Redkometal Prom. Promyshlennaya, Karbid Kremniya.

Dokl. Vses. Konf. Kiev, 1964, pp 199-206.

**TTD-HT-23-690-68

Radiation Damage in Diamond, by V. A. Hikulaenko. RUBSIAN, rpt. Report IAT 1094. NLL Ref: 5828.4F (12593)

Some New Data on the Plasticity of Metals Under Complex Loading, by V. S. Lamarii. RUSSIAN, per, <u>Lev AN SSSR OTK Meth 1 Mesh</u>, No 5, 1960, pp 93-100. MLL Ref: 9022.09 (4419)

Determination of the Thermodynamic Activity of Aluminium in Ri-Al and Ri-Al-Cr Alloys by the Electromotive Force Nethod, by V. I. Malkin, V. V. Pokidyshev.
RUBSIAN, per, Isv AN SSSR Metally, No 2, 1966, pp 166-173.
RIL 9082.4 (66/199)

Isothermal Transformation of Supercooled Austenite in Binary Ferrochromius Alloys, by M. E. Blanter, A. K. Mashkov.
RUSSIAN, per, Isv. VUZ Cher. Net. Vol 1, 1961, pp 160-165.
BISI 5809

Deformation Resistance of Pearlite Steels, by L. D. Sokolov. RUSSIAN, per, <u>Isv. VIZ Cher. Net</u>, Vol 2, 1964, pp 80-85. RISI 5828

Ways of Intensifying the Process of Sintering Kachkanar Iron-Vanadium Concentrate, by I. P. Khudoroshkov.
RUSSIAN, per, Isv. VUZ Chern. Met., No 8, 1966, pp 42-46.
BISI 5945

Effect of the Form of Perrite on the Recrystallization of Steel in Fractures, by N. N. Lipchin. RUSSIAN, per, Izv VUZ Chern Net, Vol 8, 1966, pp 141-144. AEC UCRL-Trans-10227

Beneation and Dissociation of Notal Liquid Jet into Drops, by A. A. Ryshikov.
RUSSIAN, per, <u>Isv. VUZ Cher. Not.</u>, No 3, 1967, pp 140-144.
*HISI 6596

Control of the Degree of Indirect Iron Reduction in a Hiast Furnace, by V. A. Sorokin. RUSSIAN, per, <u>Isv. WZ Cher. Heta</u>, May 1967, pp 14-18. *RISI 6964

Solidification Conditions and Their Influence on the Segregation of Sulphur in a Steel Ingot Centaining Rare Earth Metals, by E. Yu. Kolpishon. MUSSIAN, per, Isv. VUZ Cher. Met., No 7, 1967, pp 16-50. HISI 6164 Scientific Materials (Contd)

On the Causes of Formation of Hairline Cracks in Twin-Layer Chromium-Nickel Cast Iron Rolls, by A. E. Krivosheev and I. V. Adamov RUSSIAN, per, Izv. VUZ Chern. Met, Vol 10, No 7, 1967, pp 135-139.
NLL Ref: 9022.4 (67/375)

Rffect of Decridation and Alloying on the Cleanliness and Some Properties of Rail Steel, by E. Yu. Zarvin.
RUSSIAM, per. <u>Isv VUZ Cher Met</u>, No 11, 1967, pp 51-59.
*RISI 6498

The Nature of the Primary Products in Deoxidation of Iron with Aluminum, by A. A. Vorob'ev. RUBSIAN, per, <u>Isy VUZ Cher Het</u>, No 11, 1967, pp 74-79.
*HISI 6499

Formation of Complex Oxide Phase Nuclei During the Deoxidation of Iron, by A. A. Vorob'yev, A. M. Levin, RUSSIAM, per, <u>Isv. VUZ Cher. Net.</u>, No 12, 1967, pp 12-18. *BISI 6580

Investigations of the Dynamic Process in a Contactless Control Scheme For a Blooming Mill Drive, by S. V. Yaroshevich.
RUSSIAN, per, <u>Izv. VUZ Elektromekhanika</u>, No 8, 1967, pp 882-888.
BISI 6415

Investigation of Piesometric Heads for Measurement of Net Steam Flow Parameters, by N. H. Ermashov, N. M. Markov.
RESIAN, per, Isv. VIE Energetics. Vol 8, No 2 1965, pp 70-76.
NIL 9082.09 (4334)

Microstructure of Hermoven, Fibrous Rase . Abrics, Obtained by Ionic Deposition, by B. V. Artin, S. A. Pavlov.
RUBSIAN, per, <u>Inv VIE Teth Los Pros.</u> No 3, 1965, pp 40-83.
HIL 5886.47 (5989)

Characteristics of Plasticised Poly (Viryl Chloride) Films Produced from Solution, by S. S. Slavnova. RUSSIAN, por, <u>IVUZ</u>. <u>Tekhnologiya Legkov</u>. No 1, 1967, pp 69-73. *PTD-H1-23-700-68

Texture Forming in Cold Rolling of Commercial Titanium, by V. V. Mukhayev.

RUSSIAN, per, IVUZ. Tsvetnaya Metallurgiya, No 1, 1968, pp 151-154.

*PTD-HT-23-694-68

Quantitative Determination of the Amount of Lubricant on Kapron Fibre, by L. A. Dmitrieva, F. A. Trofimov. RUSSIAN, per, <u>Khim Volokpa</u>, No 2, 1965, pp 62-63. NLL 5828.4F (5931)

Durability of Polymer Fibers and Films Under Stress when Subjected to Ultraviolet Irradiation, by V. R. Regel, N. N. Chernyy, 10 pp. RUSSIAN, per, Khimicheskiye Volokna, No 6, 1965, pp 50-54. P100157368-V FTD-HT-23-822-67

Concerning the Structural Changes in Monofilament "Lavsan" When Stretched, by V. E. Heller RUSSIAN, per, Khim. Volokna, No 4, 1967, pp 66-69. NLL Ref: 5828.4F (7126)

Oil Processing Prior to Refining, by Ya. I. Pinkovskiy, 9 pp. RUSSIAN, per, Khimiya i Tekhnologiya Topliv i hasel, No 4, 1968, pp 29-32.

JPRS 45,613

On the Thermodynamics of the Carbide Reaction in Cr18ki9 Chromium-Nickel Stainless Steel, by P. Grobner.
RUSSIAN, per, Kovove Materialy, Vol 4, No 4, 1966, pp 322-332.

Extrusion of Aluminum Alloys Through a Water-Cooled Die, by A. I. Baturin, 13 pp. RUSSIAN, per, <u>Kuznechno-Shtampovochnove Proizvodstvo</u>, No 8, 1966, pp 5-9. P100155868-V FTD-HT-67-229

Effect of Plasticisers on Coating Adhesion During Aging, by V. A. Zubohmk.
RUSSIAN, per, <u>Lakokrasocknyve Materialy i Ikh</u>
<u>Primenentye</u>, No 1, pp 10-14.
*FTD_HT-23-602-68

Scientific Materials (Contd)

Influence of Graphite-Spheroidizing Treatment on the Quality of Large Cast Iron Castings, by L. S. Rudnitskii and L. B. Goldshtein RUSSIAN, per, <u>Liteinoe Proizvodstvo</u>, No 7, 1967, pp 36-37.
NLL Ref: 9022.4 (67/376)

Moscow Scientific-Engineering Conference on Metal Cutting, by L. D. Ponomarev. RUSSIAN, per, <u>Mashinostroitel</u>, No 12, 1967, pp 41-42. *FTD-HT-23-605-68

Recommendations Made for Nonferrous Metal Supply, by M. Bazhenov, 6 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye
Snabsheniye, No 4, 1968, pp 41-43.
JPRS 45731

Mschanical Properties of Steels at Low Temperatures; a Handbook, by S. I. Gudkov.
RUSSIAN, mcno, Mekhanicheskiye Svoystva Stali pri
Niskikh Temperaturakh; Spravochnik, 1967, pp 1266.
*FTD-HT-23-624-68C

Nonelastic Constants of Oriented Glass Fiber Reinforced Plastics as a Function of Temperature, by D. V. Zambakhidze. RUSSIAN, per, Nekhanika Polimerov, No 2, 1967, pp 279-285. *FTD-HT-23-666-68

Dependence Between Structural and Strength Properties of Glass Laminates, by A. S. Pranch. RUSSTAN, per, Nekhanika Polimerov, No 2, 1967, pp 302-308. *FTD-HT-23-662-68

The Effect of Organosilicon Sizes on the Physical and Hechanical Properties of Glass Reinforced Plastics, by V. I. Alksne.

RUSSIAN, per, hekhanika Polimerov, No 5, 1967, pp 787-794.

*FTD-HT-23-682-68

The Effect of Fiber Twisting on the Elastic Properties of Plastics Reinforced in One Direction, by A. V. Nosarev. RUSSIAN, por, Machanika Polimerov, No 5, 1967, pp 858-863.
*FTD-HT-23-663-68

Scientific
Materials (Contd)

Diffusion and Thermodynamic Properties of Nickel-Chromium Alloys, by G. B. Federov.
RUSSIAN, per, Mst 1 Metallov Chist Metal. Mosk
Insh-Fis Inst. No 4, 1963, pp 110-121.
NLL 9022.4 (66/249)

Zirconium-Niobium and Zirconium-Vandium Alloys, by M. V. Raevakaya. RUSSIAN, per, Moscow, Universitet, Vestnik. Seriya II. Khimiya, Vol 22, No 2, 1967, pp 58-62. *FTD-HT-23-618-68

Operation of Type 1-A Catalytic Cracking Apparatus in Processing Heavy High-Sulfur Gas Oil, by P. S. Deyneko, N. Ye. Levinter, 11 pp. RUSSIAN, per, Neftepererabotka i Neftekhimiya, Nay 1968, pp 1-5.
JPRS 45,952

Scaps as Fillers For Lithium Greases, by I. G. Fuks. RUSSIAN, per, <u>Neftepererabotka i Neftekhimiya</u>, No 9, 1967, pp 20-23. **TD-HT-23-732-68

Readily Available Hydrogen-Resistant Steel, by Yu. I. Archakov, I. D. Grebeshkova, 31 pp. RUSSIAN, rpt, Novyve Haterialy v Hashinostrovenii, 1964, pp 19-43. Pl00150268-V FTD-MT-66-143

New Materials for Shipbuilding, by Lev Yakovlevich, 53 pp. RUSSIAN, bk, Novyve Materialy dlya Sudostroveniya. 1966, pp 1-50. JPRS 45771

Pressure Working of Refractory Metals and Alloys, by N. Kornoyev.
RUSSIAN, bk, Obrabotka Davleniyem Tugoplavkikh
Metallov i Splavov, Moscow, Isd-vo Metallurgiva.
1967, 267 pp.
*PID-MI-24-277-68

Organosilicon Hardeners for Silicone-Epoxy Polymers', by V. B. Losev. RUSSIAN, per, <u>Plasticheskive Massy</u>, Vol 2, 1967, p 46. *FTD-HT-23-521-68

Wear of Epoxy Compositions by an Abrasive Jet, by S. I. Orbelin. HUBSIAN, per, <u>Flast Massy</u>, No 5, 1967, pp 35-36. *FID-ET-23-607-68 Steady Creep of Plates and Shells, by Yu. N. Rabotnov. RISSIAN, mono, Polzuchest' Elementov Konstruktsiy, 1966, pp 517-601. *FTD-MT-24-235-68

Unsteady Creep, by Yu. N. Rabotnov.
RUSSIAN, mono, Polzuchest' Elementov Konstruksiy,
1966, pp 602-659.
*FTD-MT-24-235-68

Geometric Nonlinear Problems of the Theory of Creeps. Critical Time, by Yu. N. Rabotnov. RUSSIAN, mono, Polzuchest' Elementov Konstruktsiy, 1966, pp 660-726.
*FTD-MT-24-235-68

The Effect of Disperse Oxide Inclusions on the Properties of Nickel, by B. A. Borok, G. M. Karpman.
RUSSIAN, per, Poroshkovaya Mat, No 43, 1965, pp 119-130.
NLL 9022.4 (66/256)

Properties and Structure of an Austenitic-Ferritic Steel, by E. L. Vinogradskaya.

RUSSIAN, per, Prevrashch v Splav i Vzaim Faz AN

Latv SSR Inst Avtomat 1 Mekh, No 2, 1963, pp 3-21.

NIL Ref: 9022.4 (66/407)

Stability of Orthotropic Viscoelastic Shells, by R. M. Ogibalov.
RUBSIAN, per, <u>Prikladnava Mekhanika</u>, Vol 3, No 8, 1967, pp 1-10.
*FTD-HT-23-609-68

Strength and Destruction of Highly Elastic Materials, by G. M. Bartenev, Tu. S. Zuyev, 351 pp.
RUSSIAN, bk, <u>Prochnost' I Regrusheniye</u>
<u>Vysokoelasticheekikh Materialov</u>, 1964, pp 1-387. P100135568-V
FTD-MT-66-10

Large Buckling of Trapezoid Plates with Fastened Edges, by N. V. Nedumov.
RUSSIAN, per, <u>Prochnost' i Ustovchivost' Elementov Tonkostennykh Konstruktiev</u>, <u>Sbornik Statev</u>, No 2, 1967, pp 330-356.
*FTD-HT-23-665-68

Manufacture of Alcolhols from Petroleum and Gas (Baw Materials), by B. A. Brumshteyn. RESIAM, bk, <u>Projected Smirter is Methranese</u> Gaserose Seriem, 1964, 200 pp. *PID-ET-23-606-68C

On a Discrete Lethod of Plate and Shell Design, by Yu. P. Petrov.
RUSSIAN, per, Samoletostroyeniye i Tekhnika
Vozdishnego Flota, No 10, 1967, pp 53-69.
*FTD-HT-23-672-68

Dynamic Stability of a Honuniformly Hoated Rod, by G. A. Kil chinskaya.

RUSSIAN, rpt, Sb. Dinamika Sistem Tverdykh i
Zhidkikh Tol. Kiyev, 1965, pp 49-55.

*FTD-HT-23-671-68

Foam-Generating Equipment for Extinguishing Mine Fires, by V. D. Zenin, G. I. Zarubin. RUSSIAN, per, <u>5b Stat po Gornospasat Delu</u>, No 3, 1964, pp 59-64.
NIL 8313.4 (5367)

Dynamic Stability of a Rod Made from Honlinearly Elastic Material, by I. A. Danilyak. RUSSIAH, per, Sb. Tr. Mosk. Inzh. Stroit. in-t, Ho 47, 1965, pp 142-149. *FTD-HT-23-692-68

Some Properties of Austenitic Chromium-Nickel Stainless Steels, by A. A. Babakov. RUSSIAN, per, Sb Tr Tsentr n-i Inst Chern Met, No 39, 1965, pp 73-80.
NLL Ref: 9022.4 (67/31)

Structure and Properties of Chrosius-Manganese Stainless Steels, by T. A. Zhadan, A. A. Babakov. RUSSIAN, per, Sb Tr Tsentr n-i Inst Chern Met, No 39, 1965, pp 87-90.
NLL Ref: 9022.4 (67/33)

Effect of Low-Temperature Forging on the Impact Strength of Some Chromium-Fanganese Steels, by T. A. Zhadan.
RUSSIAN, per, <u>50 Tr Teentr n-i Inst Chern Fet</u>, No 39, 1965, pp 91-93.
NLL Ref: 9022.4 (67/34)

Precipitation Hardening and Thermal Arithmess of Austentic Steels, by A. M. Boradyka, G. V. Estulin.
RUSSIAN, per, Sb Tr Tsentr n-i Inst Chern Hat.
No 39, 1965, pp 126-138.
NLL Ref: 9022.4 (67/32)

Scientific Materials (Contd)

Dendritic Heterogeneity of Distribution of Alloying Elements in Nickel-Base Alloys, by T. V. Egorshina, G. V. Estulin.
RUSSIAN, per. Sb Tr Tsentr n-1 Inst Chern Met.
No 39, 1965, pp 155-161.
NIL Ref: 9022.4 (67/9)

Development of Procedure for the Rolling of Tubes from "Nickel-Economy" Stainless Steels, by P. K. Teterin, Y. F. Luzin.
RUSSIAN, per, Sb Tr Tsentr n-i Inst Chern Met,
No 39, 1965, pp 191-199.
NLL Ref: 9022.4 (67/35)

Mechanical and Corrosion Properties of a New 21Cr-6Ni-Nb Two-Phase Stainless Steel, by A. A. Babakov.
RUSSIAN, per, Sb Tr Tsentr n-i Inst Chern Net. No 46, 1966, pp 5-12.
NIL Ref: 9022.4 (67/1)

Dustility of 2lCr-5Ni-Ti (EI811) Steel at High Temperatures, by M. I. Sinel'nikov. RUSSIAN, per, Sb Tr Tsentr n-i Inst Chern Met. No 46, 1966, pp 20-29.
NIL Ref: 9022.4 (67/2)

On the Theory of the Strength of Hardened Cement Paste and Concrete, by I. P. Virodov and O. P. Mchedlov-Petrosyan RUSSIAN, per, Silikattechnik, Vol 16, No 4, 1967, pp 109-110. NLL Ref: 5196 (1407)

Effect of Active Gases on the Electrophysical Properties of the Surface of Silicon, by V. A. Arelambekov.
RUSSIAN, rpt. Simposium po Elektronova Protessan na Poverkhnosti i v Tonkith Monkristallicheskith Slovakh Poluprovodnikov. Elektronova Protessav na Poverkhnosti i v Konokristallicheskith Slovakh Poluprovodnikov; Trudv Simposium, Novosibirek, 1967, pp 7-12.

*FTD-HT-23-622-68

Effect of Temperature Stresses on the Stability of a Three-Layer Cylindrical Shell, by V. P. Karnothitskiy.
RUSSIAN, rpt, VIth Vsesoyusmaya Konferentsiya po Teoriy Obolowhek i Flastinok, Held at Baku, Aserbaidzhan SSR, Sept 15-20, 1966, pp 463-466.
ANC-8C-7-68-1517

Determination of the Effect of Plastic Deformation on Damage to Materials Based on the Nature of the Change in Fatique Strength, by V. A. Zhukov.

RUSSIAN, per, Soveshchaniye po Ustalosti Matallov, 4th, Moscow, 1966. Prochnost! Matallov pri
Tsiklicheskikh Nagruzkakh, Materialy Soveshchaniya.

Moscow, Izd-vo "Nauka", 1967, pp 76-82.

*FTD-HT-23-689-68

Standardisation of Highly-Alloyed Corrosion-Resistant Steels, by N. V. Matyushina, 23 pp. RUSSIAN, per, Standarty 1 Kachestvo, Jan 1968, pp 25-32.

JPRS 45743

The Stability of Thin Closed Cylindrical Shells Made From Fiberglass, by V. V. Ivanov. 9 pp RUSSIAN, per, Stroitel'naya Mekhanika i Raschet Sooruzheniy, No 3, 1965, pp 28-31.
P100149868-V
FTD-HT-67-387

Structures of Molybdenum and Tungsten Films Produced by the Thermal Decomposition of Carbonyls in Vacuum, by N. N. Matyushenko. RUSSIAN, per, Strukt. Sboistva Metal. Plenok. Akad. Nauk Ukr. SSR, Respub. Nezhvedom. Sb., 1966, pp 84-87.
*FTD-HT-23-540-68

Induction Heaters for Pipe Bending, by P. K. Lutsii.
RUBSIAN, per, <u>Sudostroenie</u>, No 12, 1965, p 70.
NLL 9022.065 (2410)

Diffusion Bonding of Titanium to Titanium, Mickel and Copper, by I. V. Afansa'yev.
RUBSIAN, per, Swarochnove Preisvodstvo, No 1,
1968, pp 12-14.
**FTD-HT-23-628-68

Instrument for Evaluating Electric Charges on Films, by L. G. Gross.
RUBSIAN, per, <u>Tekh Kino 1 Televid</u>, Vol 10, No 3, 1966, pp 7-12.
NIL 5828.4F (12043)

Use of Certain Shale Products as Corrected Inhibitors, by R. E. Metaki.
MUSSIAN, per, <u>Takinol Crush Prois Neugh Prois Sb.</u>
Val 5, No 41, 1966, pp 95-97.
*FTD-HY-23-651-68

Scientific
Materials (Contd)

Effect of Heat Treatment on the Strength of Compressor Blades From Titanium Alloys, by Ye. Ya. Korenevskiy.
RUSSIAN, per, Tekhnologiya 1 Organizatsiya
Proizvodstva, No 6, 1967, pp 71-72.
#FTD-HT-23-728-68

A Study of the Reaction of Rhodanine with Cellulose in the Presence of Salts of Cadmium, by G. K. Stergui.

RUSSIAN, per, <u>Tekstilnaya Promyshlennost</u>. No 4, 1965, pp 52-53.

NLL Ref: 5828.4F (5981)

Some Methods of the Gasdynamic Theory of Lubrication, by L. G. Stepanyants.

RUSSIAN, per, Trudy, Leningrad, Politekhnicheskiy
Institut, No 280, 1967, pp 27-43.

*FTD-MT-24-276-68

Methane Roof Layers in Mine Workings, by A. I. Bobrov, V. G. Voloshin. RUSSIAN, per, <u>Trudy MakNII</u>, Vol 17, 1965, pp 92-99. NLL 8313.4 (5345)

The Rate of Evaporation of Oxidation-Resisting Alloys in a Vacuum, by E. N. Marmer, S. G. Murovannaya.

RUSSIAN, per, <u>Tr Vses n-1 Inst Elektrotera Chorud</u>, No 1, 1965, pp 249-261.

NIL Ref: 9022.4 (67/17)

Formation of Sulphates in Furnaces During the Melting of Aluminium Alloys and Their Reactions with Aluminium, by A. L. Belyaev.
RUSSIAN, per, <u>Tsystave Metally</u>, No 3, 1956, pp 58-63.
NIL Ref: 8662.8 (B-TM-265-67)

Powder Materials, by B. I. Matveyev. RUSSIAN, per, <u>Tsystmyve Metally 1 Splayy</u>, Vol 1, 1967, pp 102-112. 4FTD-MT-24-307-68

Mineral Constituents of Coals and Their Influence on the Flotation Process, by P. S. Migulya. RUBSIAN, per, <u>Decl Ukrainy</u>, Vel 8, No 2, 1964, pp 38-41. NIL 9022.09 (4150)

Investigation of Vapor Permeability in Thermal Insulation Materials, by D. M. Dudnik.
RUSSIAN, per, <u>Ukraine, Ministerstvo Vysshego i Srednego Spetsial'nogo Obrazovaniya. Kholodil'naya Tekhnika i Tekhnologiya</u>, No 4, 1967, pp 45-49.
**ITD-HT-23-541-68

Ultrasonic Defectoscopy, by D. S. Shrayber, 391 pp.
RUSSIAN, bk, Ultrasvukovaya Defektoskopiya, 1965, pp 1-391. Fl00133368-V
FTD-MT-66-45

Spectral Determination of Nitrogen in Titanium and Its Alloys, by S. A. Gorbunov. RISSIAN, rpt, <u>Yop Anal Khim Miner Veshoheely</u>, <u>Leningrad</u>, <u>Gos Univ</u>, 1966, pp 88-94.
*FTD_HT-23-640-68

The Use of Molybdenum Disulfide for Wire Production, by S. F. Chukmasov.

RUSSIAN, per, Vsesovuznyv Simpozium po Problemam

Prochnosti i Dolgovechnosti Stal*nykh Kanatov,

Stal*nyve Kanarty Materialy Simpoziuma, Kiev,

Izd-vo "Tekhnika", 1967, pp 188-192.

*FTD-HT-23-667-68

Corrosion-Inhibiting Additives and Lubricating Oils, by S. E. Kreyn.
RUSSIAN, per, <u>Vsescyuznoye Soveshchaniye po</u>
Nauke i Tekhnologii, <u>Prisadki k Naslam. Trudy</u>,
<u>Moscow. Izd-vo "Khimiya"</u>, 1966, pp 148-157.
*FTD-HT-23-668-68

High-Strength Oriented Glass-Reinforced Plastics, by G. D. Andreyevskaya. RUSSIAN, mon. <u>Vysokoprochnyye Orientirovannyye</u> Stekloplastiki, 1966, 369 pp. *FTD-M-23-621-68C

High-Temperature Materials, by E. M. Marmer. RUSSIAN, mon, <u>Vysokotemperaturare Materials</u>. 1967, pp 1-214. *FTD_HT-24-270-68

Polyamides from Dicyanosthylated Diamines and Dicarboxylic Acids, by O. Ya. Fedotova. RUSSIAN, per, <u>Vysok Soed</u>, Vol 6, No 9, 1964, pp 1565-1569. NLL 5828.4F (5947)

Scientific
Materials (Contd)

Structure Formation in Cement Mortars in the Presence of Organosilicon Additions of a Polyhydrosilomane Type, by V. G. Batrakov.
RUSSIAN, rpt, Zashoh Stroit Konstr Korros Nauch Issled Inst Belons Zhelesobeloma, Mater Koord Soveshoh, 1966, pp 3-11.
*FTD-HT-23-639-68

Some Properties, Structure, and Phase Composition of Heat-Resistant Hardened Cement Based on Sodium Silicate, by A. P. Tarasova RUSSIAN, Rpt, 'Zharost. Beton i Zhelezobeton v Stroit.' Moscow, 1966, pp 74-80.
NLL Ref: 5196 (1409)

Investigation of Hydroxypropylmethylcellulose Production, by M. Kh. Gluman, I. B. Levitskaya. RUSSIAN, per, <u>Th Prik Khim</u>, Vol 39, 1966, pp 876-880. NIL 5828.4F (5922)

Action of Intense Light Beams on the Surface of Metal, by A. R. Rustamov, T. M. Aver'yanova, 6 pp. RUSSIAN, per. Zhurnal Prikladnov Hekhaniki I Tekhnicheskov Fiziki, No 6, 1965, pp 84-86. Pl.00135868-V FTD-MT-66-108

Pyromellitic Dishydride, by I. G. Akhmetov. RUSSIAN, <u>Patent No 185.888</u>. *FTD-HT-23-544-68D

Machine for Testing Plastic, by N. P. Istomin. RUSSIAN, Patent No 186181, Class 42k. *FTD-HT-23-644-68E

Thin Films, by L. S. Palatnik. RESSIAN, Patent No 188256. Class 48b. *FTD-HT-23-644-680

Preparing Phenyltrichlorosilane, by I. I. Bartkovskii. RUBSIAN, <u>Patent No 188.974</u>. *FTD-HT-23-644-68H

Stabilisation of Polyorganosilomanes, by G. S. Tubyanshaya.
REBSIAN, Patent No 189579. Class 399.
*FTD-HT-23-638-68

Preparative Method for an Ash-Free Detergent-Mispersion Additive to Petroleum Products, by A. M. Ravikovich. RUSSIAN, Fatent No 201,574, Class 23. *FTD-HT-23-644-68M

Elastic Properties of a Kiobuin-Vanadium-Chromium System of Alloys, by I. M. Nedyukha, V. G. Chorniy, 5 pp.
UKRAINIAM, per, AN UkrRSR. Dopovidi, No 3, 1966, pp 352-354.

P100157768-V
FTD-HT-67-130

Investigation of Vibration Compaction of Powders of Hard Alloys, by I. P. Tartakevskiy, V. V. Ivashchenko, 9 pp.

- UKALILIAK, per, <u>Ukraine</u>, <u>Winisterstvo Vysshezo</u>

<u>i Srednego Spetsial nogo Obrazovaniya "Takhnologiya Mashinostroyeniya"</u>, Vol 1, 1966, pp 91-96.

P100156368-V

FTD-HT-67-127

Explosive Metalworking, by 0. N. Chkalova, 11 pp. UKRALWIAN, per, Ukraine, Ministerstvo Vysshogo 1 Srednego Spetsial nogo Obrazovaniya "Tekhnologiya lashinostroyeniya", Vol 1, 1966, pp 97-105. P190156368-V PTD-HI-67-127

Investigation of the Structure and Summary Crystallization of Graham Glass with the Help of Infrared Spectroscopy, by Iv. Gutsov, M. Arnaudov, 17 pp.
BUIGARIAN, per, Bulgarska Akademiya na Naukite.
Institute po Fizikokhimiya. Izvestiya, Vol 4,
1964, pp 13-24. Plool64968
FTD-HT-67-173

New Electroplated Hlack Conting-Elack Chromium, by Hsiac-Feng Hsu. CHINESE, per, Shang Hai Chi Hateh, No 2, 1965, pp 12-13. *FTD-HT-23-626-68C

Resistance Strain Strips. CHLESE, per, in Msien Tien, No 1, 1967, pp 31-32. *FTD-HT-23-678-68C

Study of the Melting, Glass Transition and Crystallisation of Polymere Using Differential Thermal Analysis, by V. Grmela. CZECH, per, <u>Chestoky Prinysl</u>, Vol 15, No 40, No 6. 1965, pp 347-351. NIL 5828.4F (5928)

Scientific
Materials (Contd)

The Ascertainment of the Quality of Road Surfaces, by K. Kucera.

CZECH, per, Inzenyrske Stavby, No 1, 1968, pp 468-481.

**ACSI J-5177

FSTC-HT-23-240-68

Relation of Lacquer Coat Thickness and of Fundamental Features of Tinned Plate to Its Corrosion Resistance, by V. Kosek. CZECH, per, Obaly, Vol 12, No 1, 1966, pp 6-10. BISI 5291

Changes of Structure and Characteristics of Soft Carbon Steels under Cyclical Stresses Below the Fatigue Limit, by V. Benes CZECH, per, Strojirenstvi, Vol 14, No 3, 1966, pp 191-195. NLL Ref: 6180.59 (1898)

Reliability of the Evaporators of Once-Through Boilers on Starting, by R. Dolezal, CZECH, per, Strojirenstvi, Vol 17, No 4, 1967, pp 259-263. NLL Ref: 9091-9F (Risley 1400)

Spinning Systems with Separate Formation and Winding of Yarm, by M. Wilfart. CZECH, per, Textil, Vol 20, No 8, 1965, pp 289-292.
NIL 5828.4F (5945)

Spinning Systems with Separate Formation and Winding of Tarm, by M. Wilfert. CZECH, per, <u>Tentil</u>, Vol 20, No 9, 1965, pp 340-343.
NIL 5828.4F (5944)

The Spindleless Spinning Machine KS 200 - An Innovation in Textile Technology, by L. Cisek. CZECH, per, <u>Textil</u>, Vol 20, No 10, 1965, pp 370-371.
NLL 5828.4F (5943)

Woollen Type Fabrics with Increased Stretch, by A. Kolar, W. Leitner. CEECH, per, Testil, Vol. 20, No. 10, 1965, pp. 374-376.
MIL 5828.4F (4942)

Determining the Nachinability of Steels by Short Term Tests, by P. Mathon. FRENCH, per, Ann. C.I.R.P. (Oxford), Vol 15, 1967, pp 153-159. BISI 60k2

Two Examples of the Application of Computers in the Iron and Steel Industry, by E. Bernard, FRENCH, per, Automatisme, Vol 11, Sept 1966, pp 437-444.

BISI 5303

Study of Grate Sintering of Hematite Mixes, by R. Rochas.
FRENCH, per, C.D.S. Circ., No 7/8, 1967, pp 1767-1810.
*BISI 6572

The Application of Modern Weighing Techniques in Steel Mills, by V. Gallois.
FRENCH, per, G.D.S. Circ., Dec 1967, pp 2643-2678.
*BISI 6573

Rolling of Rails on a Universal Stand Train, by R. Stambach.
FRENCH, per, C.D.S. Circ., Vol 1, 1968, pp 241-255.
HISI 6305

Study of a Mo-W Stainless Steel with Outstanding Creep Properties, by J. Decroix FRENCH, rpt, Centre de Recherches Ugine Kuhlmann, Laboratory Report 42469, 1967.
NLL Ref: 9022.4 (67/367)

Pressing of Powders, by P. Vergnon.
FRENCH, rpt, Commissariat a 1 Recruie Atomique
Ser Bibliographies, No 70, 1966.
MIL Ref: 5828.4F (12600)

Effects of Austenitization Temperature on the Room-Temperature Mechanical Properties of Low-Carbon Steels with Small Miobium Additions (Less than 0.1%), by P. Mandry.
FRENCH, per, Comptes Rend., Vol 261, 1965, pp 2895-2898.
BISI 5491

Production of S.G. Cast Iron Rolls for Rolling Mills for Iron Profiles, by G. Giacomelli FRENCH, per, Fonderia, Vol 16, 1967, pp 419-421.

NLL Ref: 9022.4 (67/391)

Role of Water Cooling of Ingot Moulds on their Life-Time, by J. J. Garmier, J. Duflot. FRENCH, pr. Fonderie, No 256, June 1967, pp 231-235, 137.
**BISI 6554*

Scientific Materials (Contd)

The Use of Sponge Iron for the Production of Pig Iron in a Basic Hot Elast Cupola, by S. Tunder. FRENCH, rpt, <u>International Congress Evian on the</u> Use of Pre-Reduced Ores, 29-31 May 1967, p 2. *HISI 6514

Simulation of the "Controlled" Rolling of Various Steels. The Influence of Recrystallization During Deformation on the Effectiveness of Thermomechanical Treatment, by C. Rossard.

FRENCH, per, IRSID IA-160, RE-13, 1967, pp 1-16.
BISI 6037

Influence of the Origin of Strains of Trichoderma Viride Pers, ex Fr. and of the Kind of Cellulose on the Enzyme Activity of Cellulose.

FRENCH, per. Material und Organismen, Vol 2, No 1, 1967, pp 30-34.

**ACSI J-5149
FSTC-HT-23-266-68

Study of Structural Evolution of Centrifugally Cast Tubes 'n 25/20 Cr-Ni Steels during Prolonged Holding at High Temperature, by C. Messager
FRENCH, per, Mem. Scient. Rev. Metall, Vol 64, No 1, 1967, pp 25-35.
NLL Ref: 9022.4 (68/1)

Study of Corrosion of Austenitic Iron-Nickel-Chromium Alloys in Sulphuric Media in Beaker and Tubular Cell, by L. Aries and H. Triche FRENCH, per, Mem. Sci. Rev. Met, Vol 64, 1967, pp 669-676.

NLL Ref: 9022.4 (67/373)

Quantitative Analysis in Microanalysis by Electronic Probe, Part III, by J. Philibert. FRENCH, per, Met. Corros. Ind., Sept 1964, pp 325-342.
BISI 5509 - III

Theoretical Study of the Mechanical Properties of Sintered Steels, by M. Rudier.
FRENCH, rpt. Paper from 2nd European Symposium on Powder Metallurer, May 1968.
*HISI 6512

Experience with the Treatment of Steel in a Ladle with Flushing Gas, by W. Deilmann, E. Klimanek. FRENCH, per, Rader Rund, No 2, Apr 1968, pp 127-137.

*HB 7470

Continuous Casting of Steel, by B. Tarmann, W. Poppmeder. FRENCH, per, <u>Radex Rund</u>, No 2, Apr 1968, pp 138-148. *HB 7471

Reaction Between Calcium Oride and Pure Iron II Oride as Well as a Solid Solution - II. The Fe-Mg-Ca-O System, by P. Perrot. FRENCH, per, Rev Chimie Minerale, Vol 4, 1967, pp 478-493. *BISI 6494

Types of Graphite and Carbon High Temperature Materials (With Discussion), by J. Parisot. FRENCH, per, Rev. Hautes Temper. Refract. Vol 3, 1966, pp 3-18.
BISI 5581

Pelletising Final Step or Transition Step in the Preparation of Iron Ores, by J. Astier. FRENCH, per, Rev Ind Minerale, Vol 49, Nov 1967, pp 745-762.
*RISI 6505

A New Method for Computing Ventilation Networks, by J. Gunther. FRENCH, per, Rev Ind Minerale, Vol 49, Nov 1967, pp 797-802. *BISI 6500

Vaporization Rate, Vapor Pressure, Composition Discontinuity and Certain Thermodynamic Properties of Refractory Compounds at Temperatures up to 3000, by V. V. Fesenko.

FRENCH, per, Rev. Int. Hautes. Temp. Refract, Vol 3, No 3, 1966, pp 261-271.

*FTD-HT-23-664-68

New Developments in Recent Grades of Steel with Good Physical Properties, by B. Hatuschka. FRENCH, per, Rev. Net., Vol 62, Oct 1965, pp 911_921. BISI 5661

Stainless Steels with Silicon Addition: A General Study of Their Performance in Highly Oxidizing Acid Environments, by H. Coriou.

FRENCE, per, Rev. Het., Vol 62, Dec 1965, pp 1193-1203.

EISI 3664

Scientific
Materials (Contd)

Estimation of the Dephosphorising Power of Over-Ordised Slags, by P. Kozakevitch, P. V. Riboud. FRENCH, per, Rev. Met., Vol 63, 1966, pp 871-876. BISI 5570

The Determination of Nitrogen in Steels and Irons By Reduction Melting, by E. Jaudon. FRENCH, per, Rev. Met., Vol 63, 1966, pp 1025-1031. BISI 5719

A Critical Study of the Robertson Test, by J. Sebille. FRENCH, per, Rev. Met., Vol 64, 1967, pp 251-262. BISI 6084

Techniques of De-Rusting Fractures of Steel Parts in Preparation for Electronic Micro-Fractography, by H. de Leiris.
FRENCH, per, Rev. Met. Mem. Sci., Vol 63, May 1966, pp 463-472.
BISI 5668

Influence of Nichium of the Mechanical Properties of Low-Carbon Steels and Attempts to Interpret its Mode of Action, by P. Mandry.
FRENCH, per, Rev. Met. Mem. Sci., Vol 44, Dec 1967, pp 1009-1023.
*BISI 6560

Nascent Chlorine Blowing Process in Metallic Baths from Liquid Carbon Tetrachloride Blown Using Porous Refractories. Application to Selective Refining of Manganese in Cast Iron, by P. Karinthi FRENCH, per, Revue de Metallurgie, Vol 9, 1967, pp 721-740. NLL Ref: 9022.4 (67/377)

Some Possible Defects in Products Cotained by Continuous Casting, by A. Bungeroth, H. von Ende. FRENCH, per, Bay Mat., Vol. 65, Jan 1968, pp 35-43. *BISI 6491

Contribution to the Study of Ageing After Quenching and Cold Working of Very Low-Carbon Steels, by J. de Fouquet.

FRENCE, per, Rev Het Non Sci., Vol 62, Nov 1965, pp 829-840.

*BISI 6496

Effect of Nickel on Resistance to Aluminum Impoverishment of Alloyed Aluminum Brasses, by F. Guillard FRENCH, per, Rev. Nickel, No 2, 1967, pp 20-27. NLL Ref: 9022.4 (67/408)

The Automation of the Sintering Process in the Marchienne Works of Forges De La Providence S. A., by H. Landgraf, I. Harven FRENCH, per. R. U. M., Vol 108, Sept 1965, pp 305-312. BISI 5658

Theoretical Study of the Machanical Properties of Sintered Steels, by M. Eudier. FRENCH, rpt, 2nd European Symposium on Powder Metallurgy, 1968. BIS1 6512

The Precipitation Hardening of Iron by Titanium, by R. Washmht. GERMAN, per, Arch Elsenh, Vol 5, July 1931, pp 45-*BISI 6504

Determination of Pore Size Distribution in Refractory Materials and Glass Suction Filters, by L. Zegar.
GERMAN, per, Arch, Risenh., Vol 27, Oct 1956, pp 657-663.
*HB 7486

On the Kinetics of Refining with Particular Reference Differential Thermal Analysis (DTA), by to the Oxygen Elowing Method, by F. Oeters. GERMAN, per, Arch. Bisenh., Vol. 37, Mar 1966, pp 209-219.
EISI 5505

Measurement of Internal Stresses with the Set Extensometer, by E. Gorissen. GERMAN, per, Arch. Elsenh., Vol 37, Aug 1966, pp 671_678. HISI 5603

Contribution to the Crystallographic Analysis of Phase Transformations in Metals, by W. Pitsch. GERMAN, per, Arch. Eisenh., Vol 38, Nov 1967, pp 853-864.

Properties of Pure Iron-Silicon Alloys Containing Up to 5% S1, by A. Hoffmann. GERMAN, per, Arch. Rissoh., Wol 39, Mar 1968, pp 191-199. *BISI 6552

Scientific Materials (Contd)

The Production of Seamless Tubes by Extrusion and Subsequent Hot Reduction With Minimum Scrap and Loss, by K. Bohm. CERMAN, per, Bander Bleche, Vol 8, No 1, 1967, pp 23-27. BISI 61:26

Corresion Behaviour of Chromium Steels for Motor Car Trim, by W. Kestermich, GERMAN, per, Bender Bleche, Vol 8, 1967, pp 545-549. BISI 5999

Phosphate Coating of Steel Tubes, by G. K. Schwarz. GERFAN, per, Bander Bleche, Vol 9, No 1, 1968, pp 18-22. BISI 6477

Roll Forming as a Combination of Various Indi-GERMAN, per Bander Meche, Vol 9, Apr 1968, pp 220-230. *BISI 6507

Determination of Residual Austerite by Means of H. J. Dichti. GERMAN, per, Berg. Butten, Monatah. Vol 111, Sept 1966, pp 430_437. BISI 6181

The Effect of Alloy Elements on Hardenshility, by A. Moser, A. Legat.
GERMAN, per. Berg. Butten. Monatch., No 112, 1967, pp 321.331.
*BISI 6567

The Smelting of Chrome-Bearing Iron Ores Up to the Production of Cold-Rolled, Unkilled, Non-Ageing Deep-Drawing Sheets Containing 0.2 to 0.4% Chrowium, by R. Rinesch.
GERMAN, per, Born -Butten Monatch, Vol 112, No 11, 1967, pp 402-412.
*BISI 6495

3

Carrier of the Control of the Contro

Operating Results in the Processing of Chrome-Bearing Cold-Rolled Thin Sheets, by F. E. Matheber. GERMAN, per, Barr -Butten Monatah, Vol 112, Nov 1967, pp 412-419. *BIBI 6503

How to Prevent a Dendritic Structure in High-Speed Steel During Melting and Solidification, by M. Pets. GERMAN, per. Berg -Hutten Monatsh, Vol 113, No 3, 1968, pp 135-141. *HB 7472

Morphological Investigations of Cross-Sections and Swelling for Distinguishing Particular Types of HWM Fibres from Each Other, Other Viscose Fibres and Cottons, Part 2, by A. Kunschner GERMAN, per, Chemiefasern, Vol 17, 1967, pp 799-816.
NIL Ref: 5828.4F (7157)

The Problem of Streakiness in Dederon Filament Fabrics, by H. Steinmuller and M. Scheller GERMAN, per, Deut. Textiltech, Vol 17, 1967 pp 443-449.
NLL Ref: 5828.4F (7115)

Influence of Mitrogen of the Properties of Austenitic Chrome-Nickel and Chrome-Nickel. Molybdenum (Copper) Steels, by K. Bungardt. GERMAN, per. <u>DEW Techn. Bers.</u>, Vol 7, 3, 2, 1967, pp 71-90.
BISI 6303

Stainless Steels in the Cellulose Industry, by P. Schierhold.
GERMAN, per, DEW Techn Ber, Vol 7, No 2, 1967, pp 137-141.
*BISI 6509

Stainless Steel and Clad Flated in Tanker Construction, by B. Ruhland.
GERMAN, per, <u>DEW Techn Ber</u>, Vol 7, No 2, 1967, pp 142-145.
*HISI 6510

The Spinning and Drawing of Polycondensate Filaments. 1, by W. Roch and R. Schroth GERMAN, per, Faserforschungs, Vol 11, 1960, 312-319.
NLL Ref: 5828.4F (7127)

The Spinning and Drawing of Polycondensate Filaments. III, by W. Roth and R. Schroth GERMAN, per, Faserforsch und Textiltech. Vol 12, 1961, pp 361-369.
NLL Ref: 5828.4F (7134)

Scientific Materials (Contd)

The Use of Sodium Gluconate in Alkaline Degressing and Derusting for Electroplating, by M. J. Reidt.
GERMAN, per, Galvanotechnik, Vol 58, 1967, pp 176-185.
BISI 5915

Effect of Sand Circulation on Condition and Properties of Moulding Sands in Foundry Practice, by F. Hofmann.
GERMAN, per, Giessered, Vol 53, 24 Nov 1966, pp 818-827.
BISI 5611

The Production of Cast Iron with Improved Strength and Ductility by the Use of a Suitable Composition and Alloying Elements, by H. Mayer. GERMAN, per, Giesserei, Vol 54, 27 Apr 1967, pp 236-244.
BISI 6078

A New Cast Steel for Hydraulic Equipment, by R. Kupfer. GERMAN, per, Gless -Forsch, Vol 19, No 2, 1967, pp 85-93. *RISI 6490

The Influence of Tramp Elements on the Structure and Properties of S. G. Iron Castings Produced Using Sand or Permanent Moulds, by J. Mots, K. Orths.

GERMAN, per, Giessereiforschung, Vol 19, No 3, 1967, pp 109-124.

BISI 6026

The Mechanism of Hot-Tearing, Particularly of Steel Castings, by W. Patterson GERMAN, per, Glessereiforschung, Vol 19, 1967, pp 151-160.
NLL Ref: 9022.1 (67/357)

Sulphur in Cast Iron, by F. Henke. OERMAN, per, <u>Giesserei-Praxis</u>, Vol 10, 1965, pp 21:5-253. BISI 6377

The Influence of Structure on Hardness and Duotility of Constructional Steels, by A. Legat, A. Hoser. GERMAN, per, <u>Bart -Teelm Mitt</u>, Vol 23, No 1, 1968, pp 10-14. *HISI 6511

Process Control in the Manufacture of Oxygen Steel, by H. Krommuller. GERMAN, per, <u>Haus der Technik</u>, No 117, 1967, pp 25-34.

Contribution to the Investigation of Diffusion and Solubility of Hydrogen in Killed and Unkilled Mild Steel, by U. Tenhaven.

GERMAN, per, Hoesoh Berichte aus Forsch und Enturn Werke, No 2, 1967, p 68.

NLL Ref: 5828.4F (7106)

Investigation of the Influence of Metallic Trace Elements on the Mechanical Properties of Low Strength Steels, by H. H. Hoff. GERMAN, per, Hoesch Ber. Forsch. Entwickl., Vol 3, No 1, 1968, pp 11-20. *BISI 6558

Concerning the Application of a Hydraulic Bulging Process - II, by T. Ogura.

GERMAN, per, Industrie-Anzeiger., No 5, 10 May 1966, pp 107-140.

*BISI 6581

The Use of Sponge Iron Production in a Basic Hot Blast Cupols, by S. Tunder. GERMAN, np, International Conference on the Production and Use of Reduction Ores, 1967, p 2. BISI 6514

Stainless Chromium-Nickel Steel in Architectural Sheet Working, by A. E. Bauer GERMAN, rpt, Int. Nickel Pub. 212, 10 pp. NLL Ref: 9022.4 (67/394)

New Thoughts on Case Hardenshility, by R. Chatterjee. GERMAN, rpt, <u>International Symposium for Metalluray</u> and Heat Treatment of Metals, Warsaw, 1967, pp 24-27. *BISI 6563

Continuous Rolling and Casting, by A. Makomaski, B. Pacsula. GERMAN/FRENCH, per, <u>Kalibreur</u>, Aug 1967, pp 49-60. BISI 6174 Scientific
Materials (Contd)

Determining the Heat Resistance of Metal Adhesive Compounds on the Basis of Torsion Oscillation Tests with the Adhesive Substance, by W. Althof, 19 pp.

GERMAN, per, <u>Kunststoffe</u>, Vol 56, 1966, pp 750-754, P500145268_V

Dept of Navy ONI tr 2385

Determination of the Creep Properties of Grilon and Other Thermoplastic Materials, by R. Gabler GERMAN, per, Kunststoffe Rundschau, Vol 3, 1956, pp 247-254.
NLL Ref: 6075.461 (1965)

Mahle-Nikasil: A New Wear-Resistant Deposit for Internal Combustion Engine Components, by E. Meyer-Rassier GERMAN, per, Mahle: Kolben-Information, No 5, 1967, pp 12-18. NLL Ref: 9022.4 (67/346)

Rot-and Mildew Proofing of Cotton Fabrics in Relation to Fastness Tests, by H. R. Rudolf, 32 pp. GERHAM/FRENCH, per, Material und Organismen, Vol 2, do 1, 1967, pp 1-27. ACSI J-4622 PSTC-HT-23-93-68

On the Stepuise Embrittlement of Ferritic Steels in the Notched Bar Impact Test, by M. Proger. GERMAN, per, <u>Material prufung</u>, Vol 6, Dec 1964, pp 450-460. BISI 5925

Control Systems for the Distribution of Elast in Blast Furnaces, by W. Kalinowski. GERMAN, per, Messen, Steuern, Regeln, Vol 10, Oct 1967, pp 370-383.

Measuring Problems in the Automation of Metallurgical Engineering, by G. Miethoff.

GENAM, per, Messen Steuern, Regain, Vol 10,
Dec 1967, pp 441-445.

*BISI 6550

Recent Results of Soft Magnetic Mickel Iron Alloys Containing 50-60% of Mickel (Influence of Crystal Orientation and Ordering Processes) by H. Fahlenbrach OERMAN, per, Metall, Vol 21, 1967, pp 904-908. MLL Ref: 9022.4 (67/328)

The Influence of Internal Stresses of the First Order of Knoop Hardness, by A. Peiter CERMAN, per, Metall, Vol 21, 1967, pp 1016-1022.
NLL Ref: 9022.4 (67/396)

Study of the Influence of Zinc on the Electro-Deposition of Nickel, by A. Knodler GERMAN, per, Metalloberflache, Vol 21, 1967, pp 321-328. NLL Ref: 9022.4 (67/393)

Behaviour of Aluminum in the Water-Steam Circuit of Steam Boilers, by G. Class GERMAN, per, Mitteilungen V.G.B., No 105, 1966, pp 436-441.

NLL Ref: 9022.09 (4670)

Automation and Progress Control For Blast Furnaces and Basic Oxygen Steel Plants, by Ph. Cesselin, C. Staib. GERPAN, per, News Hutte, Vol 11, 1966, pp 583-591. BISI 6233

Influence of Heat-Treatment on the Machanical Properties and Structure of St 45/60 Steel, by K. Welfle.
GERMAN, per, News Kutte, Vol 13, 1968, pp 45-50.
BISI 6476

The Sintering Process on Stampings of Pure Iron Powders and Iron-Hanganese Powder Mixtures, by K. Hause, H. Gresse.
GERMAN, rpt, Paper from 2nd European Symposium on Powder Hetallurgy, Stuttmart, May 1968.
**HIST 6513

Observations on the Grinding of Hard Hetal Powders, by H. F. Pischmeister, H. E. Exmer. CERPAN, per, <u>Plansecher</u>, Vol 13, 1965, pp 178-198. HISI Succ

Experiences with Browine Nethyl Acetate Solution as an Etchant for Special Steels, by H. Sener, H. Brooki. OERMAN, pur. Radex Rund., No 3/4, 1967, pp 641_645, *EINI 6376

The Electrolytic Potentic Static Method of Stabing, by H. Ludering, GHMAN, per, Lader Bands, No 3/4, 1967, pp 650-655, SELEI 6574

Scientific Materials (Contd)

High-Speed Cinematography of Martensite Transformations, by R. Mitsche.

GERMAN, per, Radex Rund, No 3/4, 1967, pp 705-710.

*BISI 6575

Some Examples of Applied Electron Microscopy in Metallography, by K. L. Maurer, GERMAN, per, Radex Rund., No 3/4, 1967, pp 733-741, *EISI 6569

Carbon Attack of Magnesite Bricks in the Teaperature Range of Co Decomposition, by F. Trojer. GERMAN, per, Radex Rund, No 1, 1968, pp 19-26. *BISI 6562

Model Tests of the Flow and Degassing Kinetics in the Ruhrstahl-Herasus Two-Leg Circulatory Degassing Process, by G. Wintermann, K. Forch. GERMAN, per, Rheinstahl-Techn., Vol. 5, No. 2, 1967, pp 42-50. BISI 6416

Real Structure of Single Crystals of Copper as a Fuction of the Conditions of Growth, by W. Uelhoff. GERMAN, rpt, Second Internaltional Symposium on Reinstsoffe in Wissenschaft und Technik, Dresden Sept 28-Oct 2, 1955, Part 3, pp 261-273.
ARC-ORNL-tr-1887

Observations on the Thermal Conductivity of Foam Glass, by W. Schulle, 9 pp. GERMAN, per, Silikattechnik, Vol 16, No 7, 1965, pp 216-218. P100157868-V FTD-HT-23-367-67

List of Steel Grades According to Til Including Comparison with Similar Gost Standards.
GENGLM, per, Stahiberatumgsstelle Mitt., Vol 51, 1965, 8 pp.
RESI 5356

Study of the Rifect of Different Manganese Contents of High Phosphorus Fig Iron Upon the Refining Reactions of the Oxygen Top Blown Process, by W. Kohler. CERNAN, per, Stahl Risen, Vol 67, 1967, pp 195-206. BISI 6283

Investigation of the Effect of Temperature on the fitte and Passing Through the Roll Gap During Hot Rolling, by B. won Mortafletsch.

GERMAN, per. Stahl Risen, Vol 87, 18 May 1967, pp 588-597.

**ELEI 6553

Calculations of High-Speed Cooling Rates in BellType and Pot Annealing Furnaces, by G. Woelk.

CERMAN, per, Stahl Eisen, Vol 87, 1967, pp 1249-1255 by W. Frishe.

Development of Design of a Modern Dust Removing Plant for an Electric Steel Plant, by P. Bergmann.

GERMAN, per, Stahl Elsen., Vol 87, 2 Nov 1967, pp 1310_1314.

*BISI 6551

Investigations on Hot Blast Slide Valves, by W. Altpeter, G. Schnegelsberg. GERFAN, per, Stahl Eisen, Vol 87, 1967, pp 1478-1482. BISI 6183

Time Studies on Roughing Mills With Manual and Automatic Programme Control, by S. Fegerl. GERMAN, per, Stahl Eisen, Vol 87, 1967, pp 1488-1494.
BISI 6173

Comparison of Three Nathods For the Regeneration of Hydrochloric Acid Pickling Solutions, by C. Eisenhuth.

GERFAN, per, Stahl Eisen, Vol 88, 1968, pp 264-269.

BISI 6459

Industrial Experience With a Plant for the Biological Treatment of Phenol-Containing Coke Oven Effluents, by R. Gross, A. Denne. ŒRMAN, per, Stahl Eisen, Vol 88, 1968, pp 280-285. BISI 6388

The Machanical Properties of Heavy Plates
Perpendicular to the Rolling Surface in
Comparison with the Values in the Longitudinal
and Transverse Directions, by W. Dahl.
GERMAN, per, Stahl Eisen, 1968, pp 364-377.
BISI 6474

Production Control in a Continuous Steel Tube Rolling Mill by Means of Electronic Data Processing, by W. H. Phillipp.
GERMAN, per, Stahl Elsen, Vol 88, 2 May 1968, pp 1445-450.
*HISI 6508

Scientific Materials (Contd)

Weathering of Aluminized and Hot Galvanized Steel Sheet in Industrial, Rural and Sea Air, Compared with Aluminum Sheet and Zinc Sheet, by W. Frishe. GERMAN, per, Stahl Risen, Vol 88, No 10, 1368, pp 477-484. *HB 7469

Reducing of Thick-Walled Tubes in Reducing Mills, by H. Hiller.

GERMAN, per, <u>Techn Mitt</u>, No 10, 1967, pp 418-422.

*HISI 6488

The Influence of Anisotropy and Atomic Ordering on the D.C. Hysteresis Loops of Iron-Nickel Alloys Containing 50-60% of Nickel, by H. Fahlenbrach GERMAN, per, Techn. Mitt. Krupp. Forsch. Ber. Vol 25, 1967, pp 1-10. NLL Ref: 9022.4 (67/383)

Application of Chelating Agents to Water Preparation and Boiler Cleaning by E. A. Ulrich GERMAN, per, Technische Uberwachung, Vol 8, No 4, 1967, pp 124-128.
NLL Ref: 9022.09 (4647)

The Effect of Coal Dusts in Green Moulding Sands, by D. Boenisch, W. Patterson. ŒRMAN, rpt, 33rd International Foundry Congress, No 10, 1966.

Noise in Gear Drives and the Manufacture of Low Noise Drives, by H. Zink GERMAN, per, VDI Berichte, No 47, 1961, pp 83-88. NLL Ref: 6075.461 (1931)

Method of Determining the Rotation Frequencies in the Analysis of Noise and Vibration of Gears, by K. Jaekel GERMAN, per, VDI Berichte, No 47, 1961, pp 91-93 NLL Ref: 6075.461 (1937)

Efficiency and Optimum Use of Centreless Peeling Hachines and Lethes: Operational Considerations, Tool Insertion, Workpiece Delivery, by H. Makelt. CENNAN, per, Workstatt und Betrieb, Vol 59, No 3, 1956, pp 133-141.
BISI 6055

Scientific
Materials (Contd)

Destruction of Material by Cavitation and Corrosion in Ethylene-Glycol-Water Mixtures, by R. Schulmeister, 12 pp. GERMAN, per, Werkstoffe und Korrision, Vol 17, No 3, 1966, pp 230-235. Fl00136168-V FTD-HT-67-389

Hot Strip Pickling with Hydrochloric Acid; Total Regeneration of Hydrochloric Acid Pickle Liquors; and the Role of Inhibitors in these Processes, by W. Machu.

GERMAN, per, Werks. Korros., Vol 18, Aug 1967, pp 673-680.

BISI 6076

Formation of Residual Stresses in Selected Fermous Alloys, and Residual Stresses Due to Working, by G. Faminger, A. W. Reits.
GERMAN, per, Z. Metallk., Vol 56, Dec 1965, pp 825-831.
BISI 5352

The Continuous Casting of Aluminium-Uranium Alloys, by W. Duerrschnabel, E. Lange. GERMAN, per, Zeit fur Metallkunde, Vol 57, No 6, 1966, pp 451-457.
NLL Ref: 9091.9F (Dounreay 320)

Determination of Powder Grain Sise by I-Ray Fluorescent Spectroscopy, by H. Ebel. GERMAN, per, <u>Z Metallk</u>, Vol 58, Dec 1967, pp 903-904. *HISI 6501

The Cladding of Steel with Special Metals, Particularly Molybdemum, by the Shock-Wave Process, by G. Bohm.
GERMAN, per. Z. Metallk, Vol 59, No 2, 1967, pp 104-111, *HB 7483

Potentialities and Limits of Salt-Bath Nitriding of Constructional Steels, by C. Rasim GERMAN, per, Z. Wirtschaftl. Fertigung, Vol 62, 1967, pp 439-447. NIJ. Ref: 9022.4 (67/365)

Stabilizers for Synthetic Rubber, by A. C. Leverkausen OMPMAN Patent 1,228,405 NLL Ref: 5828.4F (12681) Wide Strip Hot Rolling Aspects Related to Finished Product Quality, by E. Gardini.

ITALIAN, per, Met, Ital, Vol 59, June 1967, pp 437-444.

BISI 6122

Aspects of Steam Purification and Cooling in the ID Steel Flant, by P. Caruso. ITALIAN, per, Met Ital, Vol 59, No 9, 1967, pp 699-712. *HISI 6492

Toughness of Mild Steels as a Function of their Resistance and Microstructural Properties, by P. Brosso.
ITALIAN, per, Met. Ital., Vol 59, No 10, 1967, pp 789-800.
*BISI 6577

Utilization of LD Steel in the Production of Flat Rolls, by A. Di Candiz, B. Sommacal. ITALIAN, per. Met. Ital., Vol 59, No 10, 1967, pp 801-808.
*BISI 6565

Observations on the injectropy of Worksbility in Steel Tools and Some Methods of Evaluating Them, by P. Ravissa, E. Silva.

ITALIAN, per, Met Ital, Vol 59, No 10, 1967, pp 618-822.
**HISI 6502

Chlorinating Reasting of Calcined Pyrites Containing Copper and Zinc, by G. Drigo.

Trailan, per. Mat Ital, Vol 59, No 10, 1967, pp 852-860.

*RISI 6497

Some Result, of Automation Research on the Piombino Hast Furnace, by T. Bartderi, ITALIAN, per, Met. Ital., Vol. 59, No. 10, 1967, pp 861-868.
*BISI 6568

Anticipation of Coke Consumption in Connection with Variations in Cesting Quantity and Tamperature of Blast Furnace Slag, by G. Sironi, G. IAtigio. ITALIAN, per, Met Ital, Val 59, No 10, 1967, pp 869-873.
**EMBI 6506

Studies on Workability, Heat Treatment Characteristics and Corrosion Resistance for Pressurized Water of Zr-1% Mo-1% Cr and Zr-1% Mo-1% Ni Alloys, by Shigeo AOKI.

JAPANESE, per, J. Japan. Inst. Metals, Vol 28, No 1, 1964, pp 22-27.
AEC NSJ-Tr 24

On the Solidification of Fused Droplets in Forced Convection - Discussion of Coolong Curves, by Heiichiro Tohato, Isao Sekiguchi.

JAPANESE, per, Kagaku Kogaku, Vol 32, No 1, 1968, pp 50-55.

P911200268-V
AEC-SC-T-68-1527

A Study of Fabric Lustre, by K. Inagaki, N. Akagawa. JAPANESE, per, <u>Kogyo Gijutsium Sen'i Kogyo</u> Shikensho <u>Kenkyu Kokoku</u>, Vol 73, No 9, 1965, pp 79-85. NLL 5828.4F (5952)

Examination on Electrolytic Condition for Isolation of Mitride from Iron by Potentiostatic Measurement, by U. Immi, T. Masumoto.

JAPANESE, per, Mippon Kinsoky, Vol 27, No 12, 1963, pp 593-598.
*HISI 6493

A Study of the Dependence of the Mechanical Properties of Metals on Strain Rate. III - The Effect of Strain Rate on the Flastic Shoaring Behaviour of a Mild Steel Hollow Cylinder, by M. Ohmori, Y. Koshinaga.

JAPANESE, per, <u>Mippon Kinsoku</u>, Vol 30, No 12, 1966, pp 1131-1137.

BISI 5875

On the Grain Growth by Strain-Anneal in Cold-Rolled Silicon-Iron Sheet, by H. Nakae, H. Yamamura. JAPANESE, per, <u>Mippon Kinsoku</u>, Vol 32, No 4, 1968, 6 pp. *BISI 6561

Studies on Crope Yarn, I. Structure of Single Filaments in Twisted Multifilament Yarn, by S. Kakinge.

JAPANESE, per, Sen i Kingi Gakinishi, Vol 11, 1958, pp 317-321.

NLL 5828.4F (5940)

Scientific
Materials (Contd)

Nitrogen Absorption Velocities in Holten Iron and the Effect of Carbon, Silicon, Manganese and Chromium, by T. Cho, M. Inoue.

JAPANESE, per, Tetsu-to-Hagane, Vol 53, No 12, 1967, pp 1393-1406.

*BISI 6566

On the Special Slag Bonding Mechanism in the Pellets of Some Sorts of Ores, by M. Sasaki. JAPANESE, per, Tetsu-to-Hagane, Vol 53, No 14, 1967, pp 1553-1550.

On the Role of Fine Ore Particles in Hematite Bonding of Pellet, by M. Sasaki. JAPANESE, per, Tetsu-to-Hagane, Vol 53, No 14, 1967, pp 1561_1568. *BISI 6576

Study on the Properties of Calcium Ferrites in the CaO-FeO-Fe₂O₃ Ternary System, by M. Asada. JAPANESE, per, <u>Tetsu-to-Hagane</u>, Vol 54, No 1, 1968, pp 14-19.

On the Fundamental Properties of High-Basicity Pellets, by K. Kunii.

JAPANESE, per, <u>Tetsu-to-Hegane</u>, Vol 54, No 4, 1968, pp 266-276.

*HB 7476

On the Flotation of Products of Deoxidation Casi, by Y. Watanabe, T. Kusakawa. JAPANESE, per, <u>Tetsu-to-Hagane</u>, Vol. 54, No. 4, 1968, pp 335-340. *HB 7475

Spectrochesical Analysis of Oxide Inclusions in Steel Using the Solution Method, my M. Kitayama. JAPANESE, per, <u>Tetsu-to-Hagane</u>, Vol. 54, No. 4, 1968, pp 514-519.

End-Point Temperature and Carbon Control with Dropping Thermocouple and Carbon Detector in BOF Bath During the Elow, by M. Hayashi, Ts. Tachibana JAPANESE, per, Tetsu-to-Hagane, Vol 54, No 4, 1968, pp 541-544.

Segregation of Elements in a Killed Steel Ingot, by W. Hansel, Z. Osika. POLISH, per, A.O.H. Krakow, Net. Odlawn., Vol 67, No 9, 1963, pp 37-56. BISI 6228

Interdependence Between Spread, Elongation and Draught in the Cold Rolling Process, by Z. Musatowski, R. Cieslar. POLISH, per, Archiwam Hutn, Vol 12, No 3, 1967, pp 299-308.

BISI 6263

Simulation of Discrete Transmission of a Continuous System on an Automatic Computer, by J. Marsik. PCLISH, per, <u>Automatizace</u>, Vol 9, No 2, 1966, pp 29-31.
NLL Ref: 9022.81 (2390)

Effects of Thermal Pretreatment and Aluminum Nitride on the Austenite Grain Size, by Ladislav Bezdek. POLISH, per, Kovove Mater, Vol 4, 1966, pp 143-155. AEC UCRL-Trans-10228

The Action of Protective Chemical Compounds Under Ionizing Radiation, by Jerzy Semkowicz, 7 pp.

POLISH, per, <u>Lekarz Wojskowy</u>, No 3, 1965, pp 159-164. P100164468

FTD-HT-67-148

Stress Corrosion of Metals, Its Causes, Symptoms and Effects, by M. Smialowski POLISH, per, Przeglad Spawalnictwa, Vol 19, No 1, 1967 pp 1-6; No 2, pp 29-33. MLL Ref: 5828.4F (12644)

Contributions to the Study of the Behaviour of Casting Equipment in Open Hearth and Electric Steel Plants, by N. Iatan.
ROMANIAN, per, Inst. Cerc. Met., Vol 5, 1963, pp 13-21.
BISI 5597

Investigations Regarding the Influence of the Physico Chemical Properties of Coke, by S. Foriss.
RIMANIAN, per, <u>Metalurgia</u>, Vol 19, No 3, 1967, pp 125-129.
**EISI 6489

The Influence of Different Factors on the Coefficient of Heat Transfer in the Cooling of Steel, by G. Wellquist.
SWEDISH, per, <u>Jernkon. Ann.</u>, Vol 150, No 11, 1966, pp 757-786.
BISI 5692

Scientific Materials (Contd)

Selerium-Containing Normetallic Inclusions (Part 21 of Normetallic Inclusions in Steel), by R. Flossling.
SWEDISH, per, Jernkon, Ann., Vol 151, No 8, 1967, pp 542-552.
*HB 7491

Ferrite - a Structurel Element for Good and Ill in Austentic Stainless Steel Weld Metal, by J. Bjorkroth, S. Henriksson.

SWEDISH, rpt, Paper Presented at the Autumn Conference of the Welding Commission. 23 Nov 1965.

NLL Ref: 5828.4F (7102)

Mathematical Sciences

Approximate Evaluation of the Influence of Discretness and of the Method of Numerical Integration on the Accuracy of Solution of a Nonlinear Automatic Control System, by N. G. Goncharenko.

RUSSIAN, per, AN SSSR. Institut Avtomatiki i Telemekhaniki iAN UKRSSR. In Stitut Kibernetiki. Vychislitelnaya Tekhnika v Upravlenii, 1966, pp 46-55.

**TD-HT-23-731-68

On the Solution of the Shadow Equation for Small Eccentricities, by Yu. V. Batrakov RUSSIAN, per, <u>Byull. Inst. Teoret. Astronom.</u> Vol 11, 1 No 124, 1967, pp 14-17.
NIL Ref: 5207 (1253)

Relationship Between Total and Partial Best Approximations for Functions of Many Variables, by M. F. Timan RUSSIAN, per, <u>Doklady AN. BSSR</u>, Vol 124, No 3, 1959, pp 527-528.
NLL Ref: 9022.09 (4639)

On the Solution of Goodetic Adjustment Problems by the Nethod of Square Programming, by V. G. Nazarenko. RUSSIAN, per, <u>Inzhenernaya Geodeziya</u>, No 3, 1966, pp 50-54. *ACIC TC-1439

Scientific Mathematical Sciences (Contd)

Construction of Algorithms for an Approximate Solution to Some Optimum Control Problems, by RUSSIAN, per, An EstSSR. Iavestiya. Seriya Fiziko-natematicheskikh i Tokhnicheskikh Nauk, No 2, 1966, pp 167-177. *FTD-NT-23-674-68

An Optimal Recognition Algorithm for Certain Pattern Sequences, by V. A. Kovalevskiy.
RUSSIA:, per, Kibernetika, lie 4, 1967, pp 75-80.
*FTD-HT-23-698-68

Mathematical Models for Calculation of Electrical and Hagnetic Fields, by O. V. Tozoni, 299 pp. RUSSIAN, bk. Matematicheskiye Modeli Diya Rascheta Elektricheskikh i Hagnitnykh Poley, 1964, pp 1-304. P100135168-V FTD-MT-66-86

Estimates of the Complexity of Algorithms for Construction of Minimum Disjunctive Normal Forms For Functions in Logic Algebra, by Yu. I. Zhuraviev. RUSSIAN, rpt, Sb. Diskretn, Analis, Vol 3, 1964, pp 41_77. *FTD-HT-23-708-68C

On Algorithms Realized by Repeated Applications of Finite Automata, by V. A. Nepownyashchiy. RUSSIAN, rpt, Sb. Diskretn. Analiz. Vol 5, 1965, pp 77-82. *FTD-HT-23-697-68

Toward the Development of an Integral-Equation
Nethod Applicable to Sclution of Shell-Theory
Boundary-Value Problems, by N. I. Remizova, 6 pp.
Burror Limitations for Approximate Solutions of Differential Equations, by N. J. Lehmann.

Teoriva Plastin i Obolochek, L'vov, 15-21 Sentyabrya
1961, ho 2, 1962, pp 124-127. P100158468-V
FFTD-HT-67-249

Broor Limitations for Approximate Solutions of Differential Equations, by N. J. Lehmann.

GEMAN, per, Mumerische Mathematik, Vol 10,
No 3, 1967, pp 261-288.

NLL Ref: 9022.81 (2447)

Problems of Statistical Recognition Theory, by Yu. L. Barabash. RUSSIAN, per, Voprosy Statisticheskoy Teorii Raspoznavaniya, koskva, Izd-vo "Sovetskoye Radio", 1967, 400 pp. *FTD-HT-23-657-68C

Solution of Boundary-Value Problems for the Laplace Equation by the Method of Conformal Gride, by V. T. Ivanov. RUSSIAN, per. Zhurnal Vyohislital'nov Naturatiki 1. Naturatiohenkov Firiki, Vol 7. No 4, 1907, pp 895-899. *FTD-HT-23-719-68

Scientific Mathematical Sciences (Contd)

Second Congress of Bulgarian Mathematicians, 29 August-7 September 1967, 27 pp. BUIGARIAH, per, Fiziko-Fatematichesko Spisanie, Vol 10, Ho 1, Oct-Dec 1967, pp 251-270. JPRS 45,613

Communication on the Curvature of the Vertical, by F. Kobold, E. Hunziker. FRENC!, per, <u>Bulletin Geodesique</u>, New Series No 65, 1962, pp 265-267. ACIC TC-1388

The Rehabilitation of Classical Geodesy and Three-Dimensional Geodesy, by J. J. Levallois. FRENCH, per, <u>Bulletin Geodesique</u>, New Series No 68, 1963, pp 193-199.

ACIC TC-1389

(v-ix), Chpt 3, pp 55-72. AEC-LA-tr-68-28

The Significance of Molodenskiy's Theory for Geodesy, by H. Moritz. GERMAN, per, Allgemeine Vermessungs-Nachrichten, Vol 74, No 8, Aug 1967, pp 319-323. ACIC TC-1403

The Calculation of Topographic Gravity Corrections with the Aid of Computers, by K. R. Koch. GERHAN, per, Allgemeine Vermessungs-Nachrichten, Vol 74, No 8, Aug 1967, pp 338-341. ACIC TC-1/404

Investigations on Fictitious g Anomalies and the Possibility of their Elimination, by F. Steiner. GERGAN, per, Fure and Applied Geophysics, Vol 66, 1967/I, pp 5-15.
ACIC TC-1337

Orthogonalizing Regression Analysis, by P. Laininen HUNGARIAN, per, Kvalitet, Vol 11, No 3, 1967, pp 136-145. NLL Ref: 5828.4F (12674)

Scientific
Mechanical, Industrial, Civil &
Marine engineering

Notor Vehicle Industry Calls for Improved Output Norms, by A. M. Naksuri, 6 pp. RUSSIAN, per, Avtomobil naya Promyshlennost, No 6, 1968, pp 1-3.
JPRS 46,056

Selecting the Optimum Degree of Reaction in the Stages of Gas Turbines with Non-Shrouled Elades, RUBSIAN, per, <u>Magraemahinostroenie</u>, Vol 11, No 5, 1965, pp 14-17.
NLL 9022.03 (3833)

Determination of the Vibration Characteristics of Turbine Blades with Lacing Mires, by R. G. Yampol'skaya, D. A. Arkad'ev. RUSSIAN, per, <u>Energomeshinostroenie</u>, Vol 11, No 11, 1965, pp 5-7.
NIL 9022.09 (4341)

Device for Measuring Axial and Radial Clearances in Steam Turbines, by Ya. P. Bukhanov. RUSSIAN, per, <u>Energomeshinostroenie</u>, Vol 13, No 3 1967, pp 42-44.
NIL Ref: 9022.09 (4649)

Faritime Structures, 7 pp.
RUSSIAN, per, <u>Gidrotekhnichyeskoye Stroityelstvo</u>,
Sept 1961, pp 40-42.
DIA IN 130-68

Improvements in Electric Locomotives Planned, by Ye. Khrakovskiy, 8 pp. RUSSIAN, np. Gudok, 7 Jun 1968, pp 3-4. JPRS 45,863

Wear and Life of Cutting Tools, by A. D. Fakarov. RUSSIAN, bk, <u>Iznos i Stoykost! Rezhushchykh</u>
<u>Instrumentov</u>, 1966, pp 1-264.

**ACSI J-5159
FSTC-HT-23-255-68

Parametrical Resonance of Rolling Contact Bearings, by L. A. Tomashuns.
RUSSIAN, per, Anderdia Nauk Latviiskoi SSR.
Lavestiva. Seriia Fizioheekikh I Tekhnicheekikh
Hauk, No 3, 1966, pp 86-92.
4FTD-HT-23-633-68

Ammoniacal Water Hastens Retting, by V. B. Kovaliev
RUSSIAN, per, Len i Konoplia, Vol 12, No 9, 1967, pp 36-38.
NIL Ref: 5028.4F (12711)

Scientific
Mechanical, Industrial, Civil &

Marine Engineering (Contd)

Lost Wax Investment Casting, by Ya. L. Shklennik and V. A. Ozerov RUSSIAN, per,, "Lit'yepo Vyplavlyaemym Modelyam", Sec. VII, 1961, pp 369-370. NLL Ref: 5828.4F (12828)

Study of Total Pressure Losses in the Inlet Guide of an Axial Compressor, by Yu. N. Kolesnikov. RUSSIAN, bk, Lopatochnye Maskiny i Struinye Apparaty, 1967, pp 111-133.

AEC-K-Trans-34

Soviet Machinery Enters World Export Market, by K. F. Andreyev, 8 pp. RUSSIAN, per, Mashinostroitel, No 4, Apr 1968, pp 4-6.
JPRS 45,614

Export Machinery Elicits Praise, by V. V. Govorkov, 8 pp. RUSSIAN, per, Mashinostroitel, No 4, Apr 1968, pp 6-8.
JPRS 45,614

Chemical and Oil Machinery Plant Supply, by A. Myslov, 7 pp.

RUSSIAM, p.r., Material no-Tekhnichoskoye Snabzhoniye, Mar 1968, pp 22-27.

JPRS 45,861

Mechanized Equipment Developed by the Central Design Office of Fittings (Tskba) of the Main Administration of Hoisting and Conveying Machinery Manufacture (GUPTMASh), by G. V. Pavlov, 14 pp. RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Proizvodstva, No 1-68, pp 21-26. ACSI J-4795
FSTC-HT-23-40-68

Methods of Treatment of Complex Surfaces on Metal Cutting Machines (Chapt: 1 and 12), by I. A. Drushinskiy, 12) pp.
RUSSIAN, bk, Metody Obrabotki Sloshnykh Poverkhnostey Na Metalloreshushchikh Stankakh, 1965, pp 2-599. P100132368-V

Confidence on Automation of Ship-Building and lavy, by A. Yakushenkov.
RUSSIAN, per, Morskoy Flot, No 3, Nar 1968, pp 34-35.
DIA IN 814-68

Scientific
Mechanical, Industrial, Civil &

Marine Engineering (Contd)

New Materials for High Temperature Engineering Applications, by N. A. Toropov.

RUSSIAN, rpt, Novyye Materialy v Tekhnike i Nauke;

Proshlove, Nastovashchave, Budushchave, Moscow,

Ind-vo "Mauka", 1966, pp 107-119.

*FTD-MT-24-271-68

Improvement of Technology of Casting Thin-Wall Irregularly Shaped Objects, by Yu. Z. Babaskin. RUSSIAN, per, Poroki Stallnykh Otlivok Netody ikh Ustraneniya Akad. Nauk Ukr SSSR, Respub. Nezhvedom. Sb., 1966, pp 122-133. *FTD-HT-23-691-68

General Purpose Logic Machine for Controlling Manufacturing Processes, by S. D. Al'tshul'. RUSSIAN, per, Pribory i Sistemy Upravleniya, No 6, 1967, pp 25-29.
*FTD-HT-23-703-68

Pneumatic Control Machine for Automation of Polyethylene Production, by V. B. Vol'ter. RUSSIAN, per, <u>Pribory 1 Sistemy Uprablentya</u>, No 6, 1967, pp 29-31. *FTD-MT-24-260-68

The Stability of Control Systems with Two Control Devices, by A. M. Letov.
RUSSIAN, per, <u>Prik Mat 1 Mekh</u>, Vol 27, 1953, pp 401-410.
NIL Ref: 5207 (1200)

Question of the Impact of a Viscous-Flastic Rod Against a Rigid Costacle, by A. Yu. Ishlinakiy. RUSSIAN, per, <u>Prikladnava Mekharika</u>, Vol 1, No 2, 1965, pp 1-9. *FTD-MT-24-279-68

Use of Ice, Snow and Frozen Soil in Engineering Structures, by K. F. Voitkovskii, M. M. Krylov. RUSSIAN, bk, <u>Principles of Geography Pt 2</u>. <u>Engineering Geography</u>, Ch 10, pp 267-283. NLL Ref: 8732 (1267)

Synthesising Automatic Control Systems, by S. P. Gelfenbein, V. P. Klisarov. RUSSIAN, per, <u>Problems Avtomat s-kh Proisy</u>. 1964, pp 211-233.
NIL Ref: 9022.7 (184)

Scientific
Mechanical, Industrial, Civil &
Marine Engineering (Contd)

Expansion Joints in Masonry Walls of Industrial Buildings, by A. A. Emel'yanov. RUSSTAN, per, <u>Promyshlennoe Stroitel'stvo</u>, No 5, 1965, pp 17-20. NLL Ref: 8732 (1257)

Preise for Old and New Machine Tool Operations in Odessa, by I. I. Knyazhitskiy, 5 pp. RUSSIAH, np. Rabochaya Gazeta, 17 May 1968, p 1. JPRS 45,976

Estimating the Durability of Structures Submitted to Random Loading, by V. V. Bolotin.
RUSSIAN, per, 'Raschety na Prochmost', 1963, pp 302-326.
NLL 9022.09 (4249)

Strength Analysis-Theoretical and Experimental Investigations on the Strength of Engineering Structures.

RUSSIAN, bk, Raschety na Prochnost'; Teoretcheskive i Eksperimental nyve Issledovaniva Prochnosti i Mashinostroital nykh Konstruktsiv. Sbornik Statev.

No 11, 1965, pp 64-68.

*FTD-HT-23-642-68

Estimating the Mechanical Reliability of Structures and Assemblies, Taking into Account Their Possible Failures, by N. F. Gusev.
RUSSIAN, per, <u>Standarty i Kachestvo</u>, No 3, 1966, pp 41-44.
*FTD-HT-23-641-68

Modernization Held Up in Sanitary Engineering, by E. Tesler, 5 pp. RUSSIAN, np. Stroitel naya Gazeta, 2 June 1968, p 2. JPRS 45,860

Development of Wall Materials Production, by D. Alekhin, 6 pp.
RUSSIAM, np, Stroitel'naya Gazeta, 19 June 1968, p 2.
JPRS 165,977

large Cambers of a Circular Flate of a Variable Thickness, by A. F. Smirnov.
RUESIAN, rpt, Stroitel nava Makhanika, 1966, pp 277-285.
*FTD-HT-23-650-68

Scientific Mochanical, Industrial, Civil & Marine Engineering (Contd)

A New System of Gearing, by M. L. Novikov, 33 pp. RESIAN, per, Series Technology of Machine Building, No 27, 1959, pp 3-40.
JPRS 45778

Designing the General Layout of Cargo Ships, Taking Account of Habitability Conditions, by V. A. Matskevich, B. K. Sidorov. RUSSIAN, per, Sudostroenie, Vol 30, No 10, 1964, p 20. NLL Ref: 9022.065 (2517)

The Problem of Optimising Ships 1 Pumping and Ventilating Systems, by G. H. Khordas. RUSSIAN, per, Sudostroenie, No 9, 1965, pp 19. NIL 9022.065 (2405)

Structural Design and Construction of the Hulls of Ships for the Soviet Merchant Fleet, by N. F. Kuvashuk, B. M. Kontorovich. RUSSIAN, per, <u>Sudostroenie</u>, No 11, 1965, p 15. NLL 9022.065 (2414)

Hatch Dimensions of General-Cargo Ships, and the Relevant Requirements for 'Open' Ships, by A. V. Bronnikov. RUSSIAN, per, <u>Sudostroenie</u>, No 11, 1965, p 21. NLL 9022.065 (2403)

Economics of Small-Foundry Re-Equipping, by A. A. Shternov, 9 pp. RUSSIAN, per, <u>Tekhnologiya i Organisatsiya</u> <u>Proisvodstva</u>, No 1, 1968, pp 5-8. JPRS 45731

Selection of the Overlap in Turbine Stages, by A. M. Zavadovskii. RUSSIAN, per, <u>Teploenergetika</u>, Vol 6, No 6, 1959, pp 17-21. NIL 9022.03 (3922)

Utilisation of Variation Nothods for Designing Minim-Weight Systems. (Paper Presented at a Session of the Dpt. of Resistance of Materials of the Essen Aviation Institut Held on 18 Oct 1962.) RUBSIAN, per, Urol', Vol 42, No 1, 1967, pp 42by S. Rh. Geynulline. RIBSIAN, per, Trudy, Kasen, Aviatsionny Institut. Stroitel'neve Heldenike, No 91, 1966, pp 69-77. *FTD_H-23-623-68

Scientific Mechanical, Industrial, Civil & Marine Engineering (Contd)

On the Propagation of Fatigue Cracks in Statically Indeterminate Rod Structures, by Yu. D. Sofronov. RUSSIAN, per, Kasan, Avistsionnyv Institut, Trudy, Stroitel'naya Makhanika, No 91, 1966, pp 148-156.

Strength Calculation for Open Box-Like Ships Subjected to Loads which are Symmetrical about the Fore-and-Aft Plane, by V. B. Staroselskii. RUSSIAN, per, Tr Laningr Inst Vodn Transp. Vol 62, 1964, p 20. NIL 9022.065 (2412)

The Resistance to the Forward Motion of an Icebreaker in Pack Ice, Based on Model Data 1949-1951, by L. M. Nogid. RUSSIAN, per, Tr Leningred Korebl Inst, No 29, 1959, p 83. NLL Ref: 9022.065 (2522)

The Influence of Ship Speed on Pitching, Heaving and Hull Deflection in Waves, by D. M. Rostovtsov. RUSSIAN, per, Tr Leningr Korebl Inst, No 46, 1964, p 77. NIL 9022.065 (2384)

The Economic Effectiveness of Using Cable Greases VES-244-U and PES-185 Developed at the LFI im. M. I. Kelinin, by K. M. Velikanov. RUSSIAN, per, Trudy, Laningrad, Politekhnicheskiy Institut, Trudy, Mashinostrovenive, No 252, 1967, pp 166-174. *FTD_HT-23-604-68

The Actual Effectiveness of Gas Drainage from Contiguous Coal Seams by Means of Boreholes, by A. M. Morev. RUSSIAN, per, Truck Makhill, Vol 17, 1965, pp 99-110. NII, 8313.4 (5346)

Improving and Increasing the Operational Reliability of Individual Hydraulic Supports, by I. L. Gedkhman, B. A. Karavaev. NIL Ref: 8313.4 (5451)

Scientific Industrial, Civil & Marine Engineering (Contd) Mechanical,

Scientific Industrial, Civil & Mechanical. Marine Engineering (Contd)

The Traction Characteristic of a Diesel Locomotive, Decelerating Systems, by Z. I. Taranenko. 14 pp. RUSSIAH, per, Upravleniye Teplovozom I Yego Obsluzhivaniye, 1968, pp 11-22. DIA LH 813-68

Problems of Classifying Failures of Machines and their Components, by R. V. Kugel & Ya. B. Shor, 12 pp. RUSSIAN, per, Vestnik Mashin. No 1, 1966, pp 13-18. P200153068 pp 13-18. RS IC-787

Collapsible Model of a Rotating Chair for Study of Vestibular Function, by G. A. Smirnov. RUSSIAN, per, Vestnik Oto-Rino-Laringologii, Vol 4, 1955, pp 64-65. *FTD-HT-23-634-68

Collapsible Four-Arm Swings for Study and Training of the Vertibular Analyser, by G. A. Smirnov. RESSIAN, per, Vestnik Oto-Rino-Laringclorii, Vol 5, 1955, p 74.
*FTD-HT-23-635-68

Unsteady Motion of a Slender Wing with Trailing Vortices, by V. A. Yeroshin. RUSSIAN, per, Universitet. Vestnik. Seriva 1. Matematika, Makhanika, No 6, 1967, pp 126-131. *FTD-HT-23-617-68

Water Transport, Storage for Petroleum Criticized, by S. Davydov, 5 pp. RUSSIAN, per, Vodnyy Transport, 8 June 1968, p 2. JPRS 45,972

Transverse Rige Effect in Induction Pumps, by L. Ya. Ulmania, 7 pp. RUSSIAN, rpt, Rice, Voprosy Magnitudy Oldrodina-miki i Dinastki Placer, 1962, pp 561-567. P100150168-V FTD-HT-57-472

Instead of Axe and Shovel, 6 pp. RUSSIAN, per, Vovennyve Znantva, No 6, 1967. ACSI J-3190 ID 2204036867

Description of Current Construction Developments in Tollyatti, by A. Brodskiy, 5 pp. RUSSIAH, per, Za Rulem, No 5, Nay 1968, pp 4-5. JPRS 45,978

RUSSIAN, bk, Zamedlyayushchiye Sistemy, 1965, pp 1-305. **₩**ACSI J-5154 FSTC-HT-23-254-68

Hydrostatic Bearings in Sodium Pumps, by N. N. Aristarkhov. RUSSIAN, rpt, Zhidkive Metally; Sbornik Statev, 1967, pp 390-402. *FTD-MT-24-273-68

Method of Determining the Frequency Characteristics of the Systems of Automatic Control, by A. A. Vavilov, A. I. Solodovnikov, 4 pp. RUSSIAN, Patent 171445 (918611/26-9) Class 21a4, 71, pp 1-2. P100137668
FTD-HT-66-692

An Impeller, by V. V. Ivanov. RUSSIAN, Patent No 189315. Class 59. *FTD-HT-23-644-68I

A Rolling Bearing, by I. M. D'yachek. RUSSIAN, Patent No 200358, Class 47. *FTD-HT-23-644-68L

SNAR-1 Technical Characteristics. ARABIC, rpt, SNAR-1 Technical Characteristics. *ACSI J-5110 FSTC-HT-23-156-68

On Two Kinds of Difference Methods for the Bending Problem of Rectangular Cantilever Plates, by Nien-Tseng Sun, Wan-Ch'i Chang, 22 pp. CHINESE, per, Ch'ing Hua ta Hsuah Rac, Vol 12, No 1, 1965, pp 45-62. PloGM9968-V FTD-HT-67-380

Extra Large Bearing Produced in Lo-Tang. CHINESE, per, Ta King Pag. Vol 17, No 55, 15 Jan 1968, p 2. *FTD-HT-23-615-68C

Model YJD-4 Dynamic Resistance Strain Gage. CHINESE, per, Wu Haien Tien, No 1, 1967, pp 26-28. *FTD-HT-23-678-68C

A Contribution to the Theory of the Coercive Perce of Thin Sheets, by J. Eacser. CEECH, per, Coskoslovensia Casomis pro Freika, Vol 6, No 4, 1936, pp 310-320. NIL Raf: 9022.81 (2388)

Scientific Mechanical, Industrial, Civil 8 Marine Engineering (Contd)

The Building of Arch and Vault Bridges Made of Reinforced or Plain Concrete without using Supporting Structures for Shutters, by Dupont. CZECH, per, Inzenyrske Stavby, pp 485-489.

**ACSI J-5116
FSTC-HT-23-239-68

Trends in Construction of Shovel Dredges, by Frantisek Drazan.
CZECH, per, <u>Fechanizace</u>, No 11, 1966, pp 177-184.
*ACSI J-5173
*FSTC-HT-23-221-68

Graphic Computation of Repairs of Machinery and Equipment, by Josef Prokes.

CZECH, per, Mechanizace, 1966, pp 188-191.

**ACSI J-5181

FSTC-HT-23-241-68

Reliability of the Evaporators of Once-Through Boilers on Starting, by R. Dolezal CZECH, per, <u>Strojirenstvi</u>, Vol 17, No 4, 1967, pp 259-263. NLL Ref: 9091.9F (Risley 1400)

Czech Industry Urged to Aid Space Rosoarch, by Boris Valnicek, 6 pp.
CZECH, per, <u>Voda a Technika Madezi</u>, No 9, May 1968, pp 300-301.
JPRS 46,063

Principles for Efficient Design of Welding Bays and Production Lines, by L. Pliva. CZECH, per, <u>Zvaranie</u>, Vol 16, No 5, 1967, pp 136-143.
NLL Ref: 5828.4F (7104)

Considerations on the Safety in Service of Winding Ropes Made of High-Strength Steel Wires, by J. Verwilst FRENCH, per, Ann. Mines Belg, No 4, 1966, pp 497-502.
NLL Ref: 8313.4 (5535)

Data on the Halagasy Merchant Larine, 6 pp. FREMOH, per, <u>Info-Nadagascar</u>, 1 June 1968, pp 1—4.
JPRS 45,877

The Plain of Reeds, by Victor Delahaye, 153 pp. FRENCH, bk, La Plaine Des Jones (Indochine Francaise) Et Sa Nise En Valeur, 1928, 248 pp. ACSI J-4236 ID 2204002468

Scientific Mechanical, Industrial, Civil & Marine Engineering (Contd)

Reactor Pressure Vessels Design Concepts, by D. Gaussot FRENCH, per, <u>Technique Moderne</u>, Vol 58, No 10, 1966, pp 372-373. NLL Ref: 9022.09 (4760)

The Effect of the Compressibility of the Deliveries Medium on the Characteristics of a Centrifugal Blower, by A. Meldahl GERMAN, per, <u>Brown Boveri Mitteilungen</u>, Vol 28, Nos 8/9, 1941, pp 200-202.
NLL Ref: 9091.9F (Risley 1370)

Influence of Design on the Life Expectancy and Motion Resistance of Miniature Bearings, by E. Fischer.
GERMAN, per, Feingerstechnik, No 7, 1967, pp 298-305.
*FTD-HT-23-619-68

Studies on Hot-Tearing in Steel Castings, by W. Patterson GERMAN, per, Giessereiforschung, Vol 19, 1967, pp 161-174. MLL Ref: 9022.4 (67/382)

The Mechanical Properties of Cast Iron, by D. Pohl GERMAN, per, Giessereiforsch, Vol 19, 1967, pp 191-196. NLL Ref: 9022.4 (67/410)

Welding of Copper for Power Supply in the Chemical Industry, by R. Dumpelmann and P. Schmidt GERMAN, rpt, Papers Presented at the Great Welding Conference, 1959 NLL Ref: 5828.4F (12647)

Investigations into the Oxygen Cutting Jet in Relation to Scoring during Flame Cutting, by W. Scheicher.
GERMAN, per, Schweissen und Schneiden, Vol 16, No 7, 1964, p 284
NLL Ref: 5828.4F (7149)

Friction Welding - the Process and Its Potential Applications, by O. Gengenback. GERMAN, per, <u>Solvetasen und Solvetien</u>, Vol 19, No 7, 1967, pp 305-310.
NIL Ref: 5828.4F (7107)

Scientific
Mechanical, Industrial, Civil &
Marine Engineering (Contd)

Investigations into the Manufacture of High-Strength Round Steel Chains by the Pressure Butt-Welding Process, by E. Schmidtmann, R. Schmann.

GERMAN, per, Schweissen und Schmeiden, Vol 19, No 8, 1967, pp 352-361.

NLL Ref: 5828.4F (7103)

Building Up Friction Welds, by R. Schaefer GERMAN, per, Schweissen und Schneiden, Vol 19, No 11, 1967, pp 533-535
NLL Ref: 5828.4F (12639)

Friction Welding - A Review, by S. Buchholz GERMAN, per, <u>Schweisstechnik</u>, Vol 16, No 7, 1966, pp 301-306.
NLL Ref: 5828.4F (12658)

Electron Beam Welding Machine ZIS 490 by U. Heisig GYRMAN, per, Schweisstechnik, Vol 17, No 2, 1967, pp 79-83. NLL Ref: 5828.4F (7148)

New Type Tandem Rear Engine Barge for Use on the Damube, 6 pp.
GERMAN, per, Shiff und Hafen, Oct 1967, pp 710-711.
DIA LN 831-68

On Some Heading Machines in Current Use, by F. Locker GERMAN, rpt, 16th Symposium of the Austrian Regional Group of the International Society for Rock Mechanics, Salzburg. 30.9.65 - 1.10.65.
Supp 3, pp 87-103.
NLL Ref: 8313.4 (5502)

Comparative Tests on Friction Coefficient and Wear with Aqueous Lubricants and Mineral Oil, by K. Ehrlenspiel
GERMAN, per, <u>VDI Zeitschrift</u>, Vol 108, No 17, 1966, pp 737-741.
NLL Ref: 9022.9 (1139)

Ultrasonic Test Indications in Detecting Hidden Cracks in Structural Components, with Special Reference to Turbine Hisdes, by H. J. Heyer. GERMAN, per, Y.D.I. Indischmift, Vol 109, No 12, 1967, pp 537-545.

NIL Ref: 9022.09 (4675)

Scientific
Mechanical, Industrial, Civil &
Marine Engineering (Contd)

Correct Carburisation in Pot Furnace: The Furnace and Its Mode of Operation, Supply of Atmosphere and Control, by T. Turk GERMAN, per, Zeit. Wirtschaftliche Fertigung, Vol 62, 1967, pp 448-452.

NLL Ref: 9022.4 (67/362)

Determination of Axle-To Axle Distance Between Double Tracks Under Construction During the Reconstruction of Railroad Lines, by R. Karoly, 23 pp.

HUNGARIAN, per, Kozlekedes Tudomanyi Szemle, No 12, 1967, pp 569-577.

DIA LN 739-68

A New Type of Container for the Transportation of Large Quantities of Liquids, 7 pp.
ITALIAN, per, <u>Imballaggio</u>, Vol 19, No 145, 1968, pp 34-36.
ACSI J-5031
FSTC-HT-23-203-63

The Asphalting of the First Stretch of the Milan-Cremona-PO Canal Begun, 10 pp.
ITALIAN, per, Transporti Pubblici, Apr 1967, pp 585-588.
DIA LN 667-68

Collapsing Strength of an Ordinary Bracket, by K. Hishimaki. JAFANESE, per, <u>Hitachi Zosen Otho</u>, Vol. 25, 1964. NIL 9022.065 (2361)

Performance of Condenser Scoops, by M. Yoshioka. JaPanese, per, <u>Hitachi Zosen Giho</u>, Vol 25, 1964, p 201. NLL 9022.065 (2420)

Boiling Heat Transfer at the Coexistence of Nucleate and Film Regions, by Kaneyasu NISHIKAWA, Ryutaro SHIMOMURA.

JAPANESE, per, Japan Soc. Mech. Engrs., Vol 29, No 204, 1963, pp 1381-1388
AEC NSJ-Tr 47

Studies on Safety Analysis for a Loss-of-Coolant Accident in the Licht-Water [sic] Power Reactor, by Hideo FUJIE, Atsuo YAMANGUCHI. JAPANESE, per, J. Japan Soc. Mech. Engrs., Vol 69, No 571, 1966, pp 1068-1076.
**AEC NSJ-Tr 112

Scientific
Mechanical, Industrial, Civil 8
Marine Engineering (Contd)

Scientific

Mechanica), Industrial, Civil &

Marine Engineering (Contd)

Plastic Design of Steel Structures (5th Report) - Application to the Ripod-Type Mast, by Y. Fujita.

JAPANESE, per, <u>Kansai Zosen Ryokai-shi</u>, No 118, 1965, p 290.

NLL 9022.065 (2382)

Tield Strength of Polypropylene, by S. Yamanouchi. JAPANESE, per, Kogyo Kagaku Zasahi, Vol 68, No 6, 1965, pp 1094-1097.
NIL 5828.4F (5934)

Trends in Ship Automation, by H. Nakasawa. JAPANESE, per, <u>Kokai</u>, No 20, 1964, p 16. NLL 9022.065 (2392)

The Automation of Ships from the Point of View of the Equipment Manufacturer, by S. Makano. JAPANESE, per, <u>Kokal</u>, No 22, 1965, p 22. MLL 9022.065 (2393)

Basic Research on Design and Practice Related to Prestressed Concrete Pressure Vessels, Part 1, by Kametaro Pujita. JAPANESE, per, Konkurito Janaru, Vol 5, No 10, 1967, pp 18-32. AEC ORNL-tr-1876

Basic Research on Design and Practice Related to Prestressed Concrete Pressure Vessels, Part 2, by Kametaro Fujita. JAPANESE, per, Konkurito Janaru, Vol 5, No 10, 1967, pp 25-34. AEC ORNL-tr-1877

Time Study of Cargo Liners at a Loading Berth, by K. Yoneda.
JAPANESE, per, <u>Mihon Koket Geldnight</u>, Vol 32, 1965, p 151.
NIL 9022.065 (2002)

On the Difficulty of Manoeuvring Masmoth Ships in Port, by R. Shiobara. JAPANESS, per, <u>Mihon Kekni Gakknishi</u>, Vel 34, 1965, p 19. MIL 9082.065 (2087)

Research on the Vibration of Regime Rose Structures. JAPANNEE, rpt, Skitchellding Research Association of Japan, No 39, Jun 1968. HLL Ref: 9022.055 (2461)

A New Presentation Form for Ship-Model Propulsion Data, and (a New) Method of Ship Model Propulsion Testing, by Lui Shen.

JAPANESE, per, Zhongguo Zaochuan, No 1, 1966, p 1.

NLL 9022.065 (2391)

The Determination of the Bredth of a Ship, Using GM and the D/d Ratio, by T. Sammaura. JAPANESE, per, Zosen Kyokai, Vol 118, 1965, p 337.
NLL 9022.065 (2358)

An Investigation on Low-Cycle Corrosion-Fatigue Fracture. 2nd Report - Fatigue Crack Propagation, by I. Minari, H. Itagaki. JAPANESE, per, Zosen Kyokai Rombunshu, Vol 116, 1964, p 147. NLL Ref: 9022.065 (2515)

On the Dynamic Pressure Caused by Smashing Cargo Cil on Relatively Long Tanks. Pt. 1. Experiments Without Members Inhibiting Smashing, by K. Nishimaki.

JAPANSE, per, Zosen Kvokai Rombunshn, Vol 119, 1966, p 81.

NIL Ref: 9022.065 (2490)

The Fore-and-Aft Vibration of Superstructures Located Aft, by T. Hiromatari, K. Hatsumoto. JAPANESE, per, <u>Zosen Krokai Rombumahi</u>, Vol 119, 1966, p 157. HIL Ref: 9022.065 (2494)

A Model fest Method for Launching, by E. Kajita. JAPANISE, per, <u>Losen Krokai Rombunshu</u>, Vol 119, 1966, p 272. NIL Ref: 9022.065 (2473)

Application of One-Side Automatic Welding to Shipbuilding, by T. Abe. JAPANEER, per, <u>Soem Krokei Rombunahu</u>, Vol 119, 1966, p 289. MIL Ref: 9022.065 (248))

The Deformation of Ship's Hall Under Construction, by N. Ode. JAPANEE, per, Zosen Krokei Rostumeka, Vol 119, 1966, p 297. HLL Ref: 9022.065 (2096) Scientific
Mechanical, Industrial, Civil &
Marine Engineering (Contd)

The Forming of Iulls form Simply Ment Plates, by Mils C. Astrup.

NORWECIAN, rpt, Ship Model Tank Report, No 92, 1966, pp 1-30.

NSTIC Trans-1868

The Use of Flanged Pipe Joints with Separate Tightening Collars for Steel Pipelines in Shipe, by J. Szarejko.
POLISH, per, <u>Budownictwo Okretowe</u>, Vol 10, 1965, p 20.
NLL 9022.065 (2431)

Good-Bye to the Smoky Smokestack, by J. Micinski, 7 pp. POLISH, per, Morze, May 1967, pp 15-16. DIA LN 829-68

New Method of Forging Crankshafts, by T. Rut. POLISH, per, <u>Preeglad Mechanicsny</u>, Vol 23, No 2, 1964, pp 46-50.
NIL Ref: 5828.4F (7101)

Poland Outlines Program for Chemical Equipment, by Loch Bigosinski, 7 pp.

POLISH, per, Przemysl Chemiczny, Vol 47, No 5, kay 1968, pp 252-254.

JPRS 45,940

Clothing Decontamination Apparatus — A Mechanical Beating Fachine, by Roman Maksymowicz, 4 pp. POLISH, per, Zolrier Zpolski, No 50 (1019), 1967.

ACSI J-4964
FSTC-HT-23-36-68

Basic Circuit Diagram for a New Automatic Control and Regulating System Associated with a Heat Engine and Electrical Transmission, by D. Fintescu, R. Zaroni.

RUMANIAN, per, Automatica si Electronica, Vol 2, 1958, pp 56-73.

NIL Ref: 3774.3 (1518)

Blade Tensioning in Band Saws Used in the Lumber Industry, by S. Alexandru, et al RIMANIAN, per, <u>Industria Lemnului</u>, Vol 17, No 6, 1966, pp 221-225.
NLL Ref: 9022.093 (8635)

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Rumanian Train Director Examines Programming System, by Aurel-Dumitru Popa, 6 pp.
RUMAHIAH, per, <u>Lurta CFR</u>, 7 June 1968, pp 1, 3.
JPRS 45,940

Railroad in Serbia Modernized, by Predrag Danicic, 16 pp. SERBO CROATIAN, per, <u>Izgradnja</u>, June 1968, pp 10-17. JPRS 45,91?

The Adjustment of the Swedish Railway's Standard Contact Line to Higher Train Speeds, by B. Anderson, K. E. Ullerfors, 37 pp. SMEDISH, per, <u>Jarnvags Teknik</u>, No 3, 1967, pp 69-78; 63-68; 79-80.
DIA LN 226-68

A New Ore Car, by G. Holmstrom, 5 pp. SWEDISH, per, <u>SJ-NYTT</u>, No 7, Apr 1968, pp 7-9. DIA LN 855-68

Methods & Equipment

Injection of Particles into a Mirror Trap with an Increasing Field Through a Magnetic Cusp Configuration, by K. D. Sinel'nikov.
RUSSIAN, per, AN UKrSSR. Magnitnyve Lovushki, Kiev, Naukova Dumka, 1965, pp 5-18.
*FTD-HT-23-539-68

Investigation of Charged Particle Energy in a lagnetic Trsp, by B. S. Akshanov. RUSSIAN, per, AN UKrSSR. Fagnithyve Lovushki, Kiev, Naukova Dumka, 1965, pp 35-40. *FTD-HT-23-547-68

A Supersonic Hydrogen Jet in a Vacuum, by V. B. Yuferov.
RUSSIAN, per, AN UKrSSR, Magnithyve Lovushki, Kiev, Naukova Dumka, 1965, pp 113-115.
*FTD-HT-23-539-68

Using Microwave Refraction to Determine the Spatial Density Distribution of a Plasma, by L. A. Dushin.
RUSSIAN, per, AN UkrSSR. Magnithyve Lovushki.
Kiev. Naukova Dunka, 1965, pp 179-188.
**TD-MT-23-539-68

Scientific
Methods & Equipment (Contd)

Spectroscopic Investigation of the Interaction Between Beams of Charged Particles and a Plasma, by Ye. V. Lifshits.

RUSSIAN, per, AN UkrSSR, Magnitnyye Lovushki, Kiev, Naukova Dunka, 1965, pp 207-221.

*FTD-HT-23-539-68

Experimental Use of Cutting Tools Equipped by Polymer Structural Elements, by V. I. Levin. RUSSIAN, per, Byulleten Tekhniko-Ekonomicheskoy Informatsii, Vol 20, No 2, 1967, pp 16-19. #TD-HT-23-742-68

Kethod for Studying the Vacuum Degassing of Steel, by E. S. Levin.

RUSSIAN, per, Eksp. Tekh. Hetody Vysokotemp;

Izmer., A.: SSSR. Inst. Net. 1966, pp 102-104.

*FTD-HT-23-685-68

The SKV-1 Stereocomparator, by Y. D. Derviz, 15 pp. RUSSIAN, per, Geodeziya i Kartografiya, No 1, 1963, pp 37-49. ACS. J-4790 PSIC-HT-23-27-68

Guide Lines for the Design and the Testing of Fitter Self-Rescuers.

GERMAN, per, Kompass, Vol 77, No 8, 1967, pp 272-278.

NLL Ref: 8313.4 (5543)

A Marine Stereoscopic Camera, by V. V. Vinogradov. RUSSIAN, per, Okeanologiya, Vol 4, No 5, 1964, pp 896-899. *FTD-HT-23-679-68

High-Speed Measurement and Logging Apparatus, by A. V. Lebedev. RUSSIAN, per, Pribory i Sistemy Upravleniya, No 9, 1967, pp 17-19. sFTD-HT-23-702-68

A liethod for Increasing the Accuracy and Speed of a Digital Integrator, by V. V. Kokhanov. RUSSIAH, rpt, Sb. Avtomat. Upr. i Elementy Vychial. Tekhn. Frunze. "Ilim", 1967, pp 76-85.

and the second s

Scientific
Methods & Equipment (Contd)

Determination of Anticxidant Additives of the Ris-Phenolic Types in Petroleum Cils by Infrared Spectroscopy, by A. A. Kadushin.
RUSSIAN, rpt, <u>5b Pr Chem Fak SVST (Slov Vys Sk Tech</u>), 1966, pp 195-200
*FTD-HT-23-629-68

Combined Decision-Making Method, by N. G. Zagoruyko.
RUSSIAN, rpt, Sb Vychisl Sistemy, Vol 22, 1966, pp 77-80.
*FTD-MT-24-268-68

Organisation of the Flow of Information in a Specialised Computer for the Control of Electron-Ray Technological Processes of Microcircuit Preparation, by V. P. Derkach.
RUSSIAN.rpt. Seminar "Fisiko-Tekhnologicheskaya Voprosy Kibernetiki, Doklady, No 1, 1967, pp 46-55.
**FTD-MT-24-267-68

Objective Criterion of the Information Capacity of Motion-Picture and Photographic Materials, by G. A. Istomin.
RUSSIAN, per, <u>Tekh Kino i Televid</u>, Vol 9, No 2, 1965, pp 1-12.
NLL 5828.4F (12041)

Selection and Conditions of Processing Photographic Materials for Recording Exposure from Luminescent Screens, by G. A. Gavrilov. RUSSIAN, per, <u>Tekh Kino i Televid</u>, Vol 9, No 11, 1965, pp 40-44. NLL 5828.4F (12045)

Effect of Various Factors on Sensitometric Characteristics of Developers Containing Phenidene, by V. L. Abritalin.
RUSSIAN, per, Tekh Kino i Televid, Vol 10, No 2, 1966, pp 21-26.
RLL 5828.4F (12046)

Video Magnetic Tape, by S. Kh. Nagarov, A. P. Fletnev. RUBSIAN, per, <u>Tekh Kino i Televid</u>, Vol 10, No 3, 1966, pp 1-6. HLL 5828.4F (12044)

Expiration Date of Films Extended, by 3. M. Solov'ev.
RUBSIAN, per. Tekh Kino i Televid, Vol 10, No 4, 1966, pp 48-51.
NIL 5828.4F (12048)

The Possibilities of a Partial Substitution of Synthetic Polymers for Gelatin in Negative Emulsions, by B. A. Tsarev RUSSIAN, per, Tr. Len. Inst. Kinoinzh, No 9, 1963, pp 9-15.

NLL Ref: 5828.4F (12672)

The Aerial Camera AFA TES 7 and its Tests, by V. B. Il'yin.
RUSSIAN, rpt, Trudy Moscow. Tsentral'nyy
Nauchno-issledovatel'skiy Institut Geodezii,
Aeros"yemki i Kartografii. Issledovaniya po
Fotogrammetrii, No 165, 1966, pp 94-101.
*FTD-MT-24-231-68

Physical Principles of the Extrusion Method of Coating Photographic Emulsions, by S. M. Levi. RUSSIAN, per, <u>Uspekhi Nauch Fotograf</u>, Vol 11, 1966, pp 74-84. NLL Ref: 5828.4F (12618)

Preparation of Photographic Emulsions for Nuclear Investigations, by N. R. Novikova. RUSSIAN, per, <u>Uspekhi Nauch Fotograf</u>, Vol 11, 1966, pp 135-150. NIL Ref: 5828.4F (12623)

Principal Characteristics of Preparing Thin-Layer Motion Picture and Photographic Films, by V. L. Zelikman, V. A. Dmitrieva. RUSSIAN, per. <u>Dspekhi Nauch Fotograf</u>, Vol 11, 1966, pp 161-170. NLL Ref: 5828.4F (12633)

Determination of Frequency-Contrast Characteristics of Photographic Materials, by P. Kh. Pruss. RUSSIAN, per, <u>Uspekhi Nauch Fotograf</u>, Vol 11, 1966, pp 222-230. NIL Ref: 5828.4F (12626)

Questions Regarding the Cooling of Electrical Machines, by I. F. Filippov, 332 pp. RUBSIAN, bk, <u>Voproev Okhlashdeniva Elektricheslikh Mashin</u>, 1964, pp 1-334. Fio0135968-V FTD-MT-66-95

The Reduction of Processing Time and Water Consumption through Stabilization of Developed Images, by K. I. Harkhilevich.
RUBSIAN, per. <u>Zh Nauch i Prik Foto i Ninemi</u>, Val 2, No 2, 1957, pp 148-150.
NIL 5828.4F (12052)

Scientific
Methods & Equipment (Contd)

Mechanism of the Effect of Desenaitizers, by P. V. Maiklyar.
RUSSIAN, per. Zh Nauch 1 Prik Foto 1 Kinemat.
Vol 10, No 6, 1965, pp 401-410.
NIL 5828.4F (12057)

Investigation of the Diffusimetric Method of Testing Photographic Materials, by P. Kh. Pruss.
RUSSIAN, per, Zh Nauch 1 Prik Foto 1 Kinemat, Vol 10, No 6, 1965, pp 418-422.
NIL 5828.4F (12056)

Changes in the Kinetics of Fading of Latent Image and the Sensitivity (Speed) of Photographic Emulsions to Various Radiant Energies when Pinakryptol Yellow is Added to Emulsions, by A. L. Kartushanskii.

RUSSIAN, per, Zh Nauch i Prik Foto i Kinemat, Vol 10, No 6, 1965, pp 146-148.

NLL 5828.4F (12059)

Photographic Sensitivity of Thin Semiconductor Layers, by M. T. Kostyshin.

RUSSIAN, per, Zh Nauch i Prik Foto i Kinemat.

Vol 10, No 6, 1965, pp 450-451.

NIL 5828.4F (12064)

Sensitivity of Tl₂Se.As₂Se Photoelectret Layers Within the I-Ray Spectral Region, by V. M. Lyubin, V. G. Tsukerman.
RUSSIAN, per. Zh Nauch i Prik Foto i Elnemat.
Vol 10, No 6, 1965, pp 451-452.
NIL 5828.4F (12065)

Changes in the Photographic Properties of Silver Chloride Emulsion when Brownde Ions are Substituted for Chloride Ions in Grains, by K. V. Chibisov, A. A. Trubnikova.

RUSSIAN, per. Zh Hauch 1 Prik Foto 1 Kinemat.
Vol 10, No 6, 1965, pp 453-455.

NIL 5828.4F (12062)

Possibilities of Electronic Colour Correction in Printing Aerial Photographs, by N. I. Bogachkov.
ROBSIAN, per. Zh Naveh i Prik Poto i Kingsat.
Vol 11, No 1, 1966, pp 3-11.
NIL 5828.4F (12067)

Scientific
Methods & Equipment (Contd)

Investigation of Factors Affecting the Quality of Development in Electrodialyzer, by D. M. Samoilovich.
RUSSIAN, per, Zh Nauch 1 Prik Foto 1 Kinemat, Vol 11, No 1, 1966, pp 14-18.
NLL 5828.4F (12060)

Kinetics and Topochemical Properties of the Development of Separate Emulsion Grains, by X. A. Avgustinovich.

RUSSIAN, per, Zh Nauch i Prik Foto i Kinemat, Vol 11, No 1, 1966, pp 39-46.

NLL 5828.4F (12066)

Photographic Reproduction of Actual Visual Impression of the Appearance of Real Object, by Yu. N. Denisyuk.

RUSSIAN. per, Zh Nauch i Prik Foto i Kinemat,
Vol 11, No 1, 1966, pp 46-56.

NIL 5828.4F (12051)

Comparision of Subjective and Objective Graininess, by A. Zaleski. RUSSIAN, per, <u>2h Nauch 1 Prik Foto i Kinemat</u>, Vol 11, No 1, 1966, pp 57-58. NIL 5828.4F (12061)

Resolving Power Measurement with a Laser Beam, by A. N. Zaidel RUSSIAN, per, Zh. Nauch. Prik. Fot. i Kinemat, Vol 11, No 5, 1966, pp 381-382. NLL Ref: 5828.4F (12653)

Developing Properties of Some Alkyl Derivatives of 7.8-Diczybensopyrylium Chloride and the Hardening Effect of Their Oxidation Products, by E. F. Rul'.
RUSSIAN, per. 2h Nauch i Prik Fot i Kinemat.
Vol 11, No 6, 1966, pp 435-436.
MIJ. Ref: 5828.4F (12627)

Heasured and Actual Resolving Power of Photographic Materials, by G. A. Istomin.
RUSSIAN, pur, <u>2h Mayoh i Prik Fot i Kinemat.</u>
Vol 11, No 6, 1966, pp 439-440.
MIL Ref: 5828.4F (12629)

Hardening of the Receiving Layer of Transfer Sheet by Epoxy Compounds, by S. A. Bongard. RUSSIAN, per, Eh Hauch Prik Fot i Kingmat, Vol. 12, No 1, 1967, pp 8-12. NLL Ref: 5828.4F (12636)

The state of the second second

Scientific
Methods & Equipment (Contd)

Investigation of Optimum Parameters of Using the UF Photographic Recording Paper and Some Problems of Its Processing, by A. D. Predel'skii, V. Ya. Ivanohenko.

RUSSIAN, per, 2h Nauch 1 Prik Fot 1 Kinemat, Vol 12, No 1, 1967, pp 53-60.

NLL Ref: 5828.4F (12628)

Absorption of light by Silver Bromide, by S. G. Ryshanov.
RUSSIAN, per, Zh Nauch i Prik Fot i Kinemat, Vol 12, No 1, 1967, pp 61-62.
NIL Ref: 5828.4F (12624)

Arrangement for Investigating the Developing Process of Thermoplastic Recording, by Yu. P. Gushcho
RUSSIAN, per, Zh. Nauch. i Prik. Fot. i
Kinemat, Vol 12, No 1, 1967, pp 65-66.
NLL Ref: 5828.4F (12673)

Effect of the Length of Emulsification and First Ripening Time on the Graininess and Photographic Properties of Fine-Grain Ammoniacal Emulsions, by V. V. Vasil'ev RUSSIAN, per, Zh. Nauch. Prik. Fot, 1 Kinemat, Vol 12, No 2, 1967, pp 81-86.
NLL Ref: 5828.4F (12654)

Intensification of Details and the Contrast of Weak Images, by E. A. Bukatin RUSSIAN, per, Zh. Nauch. 1 Prik. Fot.i Kinemat, Vol 12, No 2, 1967, pp 86-89.
NLL Ref: 5828.4F (12671)

Investigation of the Kinetics of High Speed Fixing, by I. B. Blyumberg RUSSIAN, per, Zh. Nauch. i Prik. Fot i Kinemat. Vol 12, No 2, 1967, pp 89-97.

NIL Ref: 5828.4F (12670)

Some Data on the Resolving Power of Electrophotographic Layers from Zinc Oxide, by I. V. Dubovich RUSSIAN, per, Zh. Nauch. I Prik. Fot. i Kinemat, Vol 12, No 2, 1967, pp 97-101. NIL Ref: 5828.4F (12669)

Comparison of Microphotometric Graininess (Granularity) and Macrograininess of Photographic Materials, by I. I. Breido RUSSIAN, per, Zh. Mewch. i Prik. Fot. i Kinemat, Vol 12, No 2, 1967, pp 101-113. HLL Ref: 5828.4F (12668)

Scientific
Methods & Equipment (Contd)

Investigation of the Effect of Triazenes on Photographic Emulsions, by Yu. B. Vilenskii RUSSIAN, per, Zh. Nauch. 1 Prik. Fot. 1 Kinemat, Vol 12, No 2, 1967, pp 121-127. NLL Ref: 5828.4F (12666)

Some Problems of Preparing Heat-Developable Oxalate Photographic Emulsions, by M. S. Borodkina
RUSSIAN, per, Zh. Nauch. i Prik. Fot. i
Kinemat, Vol 12, No 2, 1967, pp 127-135.
NLL Ref: 5828.4F (12665)

An Investigation of the Diffusion of Silver Halide Solvents into Gel-Like Media, by T. N. Gerasimova and A. V. Bromberg RUSSIAN, per, Zh. Nauch. i Prik. Fot. i Kinemat, Vol 12, No 2, 1967, pp 136-142.

NLL Ref: 5828.4F (12664)

Dependence of the Photometric Equivalent of Photographic Image upon the Exposure Time and Its Effects on the Reciprocity Law Failure, by A. L. Kartuzhanskii RUSSIAN, per, Zh. Nauch. i Prik. Fot. i Kinemat, Vol 12, No 2, 1967, pp 143-144.

NIL Ref: 5828.4F (12663)

Some Characteristics of Fixing Development, by I. B. Blyumberg HUSSIAN, per, Zh. Nauch. 1 Prik. Fot 1 Kinemat, Vol 12, No 2, 1967, pp 145-146. NLL Ref: 5828.4F (12662)

Relationships between the Sensitivity of Thermoplastic Films and the Maximum Tensions of the Displacement of Polymers, by A. I. Babchin RUSSIAN, per, Zh. Nauch. i Frik. Fot. i Kinemat, Vol 12, No 2, 1967, pp 149-150.
NLL Ref: 5928.4F (12661)

Fiethod of High-Vacuum Pumping Out of Gas from a Chamber Having Atmospheric Pressure, by Ye. N. Kartinson, Yu. T. Putyatin, 2 pp. RUSSIAN, <u>Fatent No 145689</u>, 22 Jul 1961, 3 pp. P100158368-V FTD-HT-67-96

Device for Eliminating Static Priction and Reducing and Stabilizing Rolling Priction in Bearings, by L. S. Stralenya. MUSSIAN, Patent No 186182, Class 48k. FID-HT-23-644-68F Scientific
Methods & Equipment (Contd)

Methods for Obtaining Water-Soluble Fluorine Compounds of Titanium, by Yu. K. Dalimarskiy. RESSIAN, Patent No 199132. Class 12. *FTD-HT-23-644-68J

Effect of light on AgCl Single Crystal Flates, by O. Vinduskova. CZECH, per, Csech Jnl of Physics, Vol 15, No 8, 1965, pp 602-605.
NIL 5828.4F (12034)

Dr. B. J. Tideman's Equipment for Experiments with Model Ships at the Rijks Shipyard at Amsterdam, by J. M. Dirkzwager.

DUTCH, per, Meddelingenblad van de Vereniging van Ingenieurs der Marine, Vol 4, No 1, Sept 1967, pp 29-42.

P944226668-V

NSTIC-Trans-No 1942

Description of Two New Probes for Enthalpy and Pressure Measurements in High-Temperature Gases, by W. Fischer-Schlemm.
GERMAN, rpt, DLR-FB-67-17.
ABC-SC-T-68-1524

Freely Noving Transcontainer Transport and Handling Equipment, by G. Hanssman, 8 pp. GERMAN, per, Foerdern Und Heben, Vol 18, No 2, 1968, pp 114-117.

ACSI J-4893
FSTC-HT-23-57-68

Goodyear Presents Polyester Cord Tyres USA Astronauts are Joined by Polyester Fibre During Walk in Space GERMAN, per, <u>Gummibereifung</u>, No 7, 1967, pp 20-22. NLL Ref: 5828.4F (7135)

Preparation, Properties and Application of Sulphur Modified Phenol Resins, by M. Cherubim GERMAN, per, <u>Kinststoff-Rundschau</u>, Vol 13, No 5, 1966, pp 235-240. NLL Ref: 5828.4F (12678)

Preparation, Properties and Application of Sulphur Modified Phenol Resins, by M. Cherubim GERMAN, per, <u>Kunststoff-Rundschau</u>, Vol 13, No 6, 1966, pp 291-294. NLL Pef: 5828.4F (12679)

Scientific Methods & Equipment (Contd)

Provisional Operating Manual for Dental Equipment, Field, in 10 Containers, 94 pp. GERMAN, bk, Vorlaeufige Gebrauchsamweisung Fuer Zahnaerztliches Geraet Feld in 10 Kasten, Apr 1962.

ACSI J-4932
ID Incl to 2252018268

Process for the Vulcanisation of Natural or Synthetic Rubbers, by A. G. Marl GERMAN Patent 1,236,772 NLL Ref: 5828.4F (12682)

Missile Technology

Rockets: Their Organization and Utilization, by G. E. Langemak.
RUSSIAN, bk, Rakety Ikh Ustroistvo I Primaneniye,
1935, pp 1-7, 73-102.
**FTD-MT-24-308-68

Sparrow - Scared Stiff, - Spook - Prototype Revealed (FiH Carrier Based Interceptor Shoots Itself Down with Its Own Sparrow Air to Air Guided Missile Over Chinese Territory), by H. Tsung. CHINESE, per, Heng K'ung Chih Shih, Vol 2, No 6, 1965, pp 31-33. *FTD-HT-23-648-68C

Soviet Rissiles and Launchers, 4 pp. FRENCH, per, <u>Aviation</u>, No 480, 1967. ACSI J-5032 FSTC-HT-23-228-68

Yesterday's, Today's and Tomorrow's Air to Air Missiles, 13 pp. FRENCH, per, <u>Aviation Magazine</u>, Issue 480, Dec 1967, pp 16-19. DIA LN 736-68

Rocket Technology, by Z. Pacekowski. PCLISH, bk. Technolog Rakistowa, No 12, Vel 4, 1962, 279 pp. *FTD-HT-23-591-68C

Scientific Navigation, Communications, Detection & Countermeasures

On Safety of Navigation in the Kola Bay, by M. Rosenshrrakh.
RUSSIAN, per, <u>Horskoy Flot</u>, No 3, Mar 1968, pp 12-13.
DIA LN 814-68

An Amplitude Analyser Made with a Solid Acoustic Delay Line, by Yu. M. Grashin, V. I. Yeframenko, 14 pp.
RUSSIAN, per, Referativnyy Zhurnal. Fisika,
Vol 2, 1963, pp 163-172. F100131968-V
FTD-MT-66-132

Improvements in Telephone Dial Construction, by N. I. Basov
RUSSIAN, per, Vestnik Svyazi, Vol 27, No 8, 1967, pp 6-8.
NLL Ref: 9022.81 (2453)

Report on Creativity in Communications Educational Schools, 8 pp.
RUSSIAN, per, <u>Vestnik Svyazi</u>, Vol XXVIII, No 4, Apr 1968.
JPRS 45,958

At the Leningrad ETUS, 5 pp.
RUSSIAN, per, <u>Vestnik Svyazi</u>, Vol XXVIII, No 4,
Apr 1968.
JPRS 45,958

Economics of Communications; The Bases of Business Accounting are Economically Substantiated Rates, 8 pp.
RUSSIAH, per, <u>Vestnik Svyazi</u>, Vol XXVIII, No 4, Apr 1968.
JPRS 45,958

Relationship Between the Mutual Effect of Small Diameter Coaxial Cable and the Length of the Line, 5 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXVIII, No 4, Apr 1968.
JPRS 45,958

Circuits and Design of the U-60E Apparatus, 9 pp.
RUSSIAN, por, <u>Vostnik Svvasi</u>, Vol XXVIII, No 4, Apr 1968.
JPRS 45,958

The same of American Street

Scientific
Navigation, Communications, Detection &
Countermeasures (Contd)

Communications Equipment Type ABM Automatic Gasoline-Electric Units for Radio-Relay Centers, 10 pp. RUSSIAM, per, <u>Vestnik Svyazi</u>, Vol XXVIII, No 4, Apr 1968.
JFRS 45,958

The Organization and Operation of Communications Facilities; Single Numbering System and Electrical Through Dialing are the Basic Requirements in the Automation of Communications Facilities, 5 pp. RUSSIAN, per, <u>Vestnik Svyazi</u>, Vol XXVIII, No 4, Apr 1968.

JPRS 45,958

Theoretical and Experimental Study of the Photographic Zenith Telescope (FZT) at Neuchatel, by W. Schuler, 96 pp.

FRENCH, bk, Etude Theorique et Experimentale de la Lumette Zenithale Photographique (FZT) de Neuchatel, 1967.

Dept of Navy NIC tr 2615

Post and Telecommunications Ministry Constituted, 6 pp.
FRENCH, np. <u>Journal Official du Cambodge</u>, 23 Mar 1968, pp 1147-1153.
JPRS 45783

Research into Using Coloured Silica Gel as Air Hamidity Indicator in the Pressurisation of Tele-Communication Cables, by A. Stoblecks.

POLISH, per, <u>Prace Inst Lacenced</u>, Vol 12, No 4(40), 1965, pp 3-13.

NIL Raf: 9022.81 (2387)

The Telecommunication Services in Ifni and Sahara, by Jaine Sahau Dorgamin, 12 pp. SPAUISH, per, <u>Africa</u>, Apr 1968, pp 16-19. JPRS 46,074

Nuclear Science & Technology

provide the second seco

All-Union Conference on the Application of Radioactive and Stable Isotopes and Radiation in the Mational Economy and Science, Session on Radiation Chemistry, Moscow, 1957. RUSSIAN, 1957, pp 85-140. *FTD-HT-23-688-68C Scientific
Nuclear Science & Technology (Contd)

General Description of a Geometrical Reconstruction Program for Large Chambers ("1-6" Versions), by N. N. Govorum, G. A. Emel'yanenko. RUSSIAN, rpt, JINR-P11-3480. AEC-CERN-Trans-67-8

Mechanism of Interaction of Fast Deutrons with Nuclei, by V. S. Barashenkov, K. K. Gudina. RUSSIAN, rp-t, JINR-P2-3356. P911202868-V AEC ORNL-tr-1907

The Thermophysical Properties of Some Multilayer Insulators at Cyrogenic Temperatures, by L. B. Golovanov, 16 pp. RUSSIAN, rpt, JINR, 1967, pp 3-20. RSIC-780 P200153268

Heat Transfer Systems of Nuclear Reactors, by A. G. Samoilov.

RUSSIAN, bk, <u>Dispersionnye teplovydelyayushchie</u>
elementy yadernykh reaktorov, 1965, 341 pp.

*CFSTI TT 68-50327

AEC-tr-6878

Development of Atomic Power Engineering, 17 pp. RUSSIAN, bk, <u>Elektrifikateiva SSSR</u>, 1917-1967. 1967, pp 162-173.
JPRS 45814

The Use of Synthetic Polymers in Nuclear Emulsions for Fast Neutron Dosimetry, by F. Bradna.
RUSSIAN, rpt, IAEA Symposium on Neutron Dosimetry for Radiological Protection, Paper SM-76/43, 29.8.66 - 2.9.66, 16 pp. NLL Ref: 9022.09 (4513)

Analysis of the Change in the Snil 9 Nucleus Following Excitation on the Basis of the Mossbauer Spectre, by I. B. Bersuker, V. I. Gol'danakiy, 13 pp. RUBSIAN, rpt. International Atomic Energy Agency, Tech Rot Series, No 50, 26-30 Apr 1905. Pl00149268-V FID-HI-23-668-67

Hodern Status and Prospective Technical Application of the Superconductivity Phenomenon, by V. V. Sychev, 14 pp.
RUSSIAN, per, AN SSSR. Isvestiya. Energetika i Transport, No 4, 1966, pp 26-32. P100124868 FTD-HT-67-20

Scientific
Nuclear Science & Technology (Contd)

Radiative Capture of Fast Neutrons, by A. I.
Abramov, A. A. Van'kov.
RUSSIAN, rpt, Gosudarstvennyi Kozitet po Ispol'zovaniyu Atomnoi Energiy SSSR, Obninsk. FizikoEnergeticheskiy Inst, 14 pp.
AEC-LA-tr-68-18

Radioisotopes in the Construction of Foundations and Underground Installations, by M. I. Smorodinov.
RUSSIAN, bk, Radioizotopy v Stroitel'savo Fundamentov i Poszemnykh Sooruzhenii, 1967, 155 pp.
AEC-Tr-6933

Formation of an Excavation by a 1009 t Throw-Out Blast, by A. N. Dashkov. RUSSIAN, per, <u>Transp Stroit</u>, Vol 10, No 11, 1960, pp 10-12. AEC UCRL-Trans-10138

Average Radiation Pattern and Gain Losses in Antennas when Amplitude and Phase Fluctuations Vary Over the Antenna, by R. M. Golynakaya. RUSSIAN, per, Moscow. Universitet. Vestnik. Seriya III. Fizika, Astronomiya, No 1, 1968, pp 117-119.

*FTD-HT-23-673-68

Reactor Calorimetry, by J. Kott, Z. Kovar. CZECH, per, Jad Energ, Vol 12, 1966, pp 289-296. AEC UCRL-Trans-10217

Radiometer Radiation Measurement, by K. Schovanec. CZECH, per, Jenna Mechanika a Optika, No 4, 1967, pp 109-113. *FTD-HT-23-599-68C

Semiannual Report of the Chemistry Department, Center for Nuclear Studies at Fontenay-Aux-Roses, Direction of Nuclear Naterials and Fuels, December 1966-May 1967. FRENCH, rpt, Commissariat a l'Energie Atomique, Fontenay-Aux-Roses, Centre de Etudes Nucleaires, Sections 1 and 4, pp 5-36, 79-86.

Study of Processes of Treatment by Aqueous Method: Laboratory. FRENCH, rpt, Commissariat a l'Emergie Atomique, Fontenay-aux-Roses. Centre d'Etudes Nucleaires, Sec 7, pp 136-236, CEA-N-856. AEC-ANL-Trans-619

AEC-ANL-Trans-610

Scientific
Nuclear Science & Technology (Contd)

Semiannual Report of the Chemistry Department, Center for Nuclear Studies at Fontenay-Aux-Roses, Direction of Nuclear Materials and Fuels, December 1966-May 1967. FRENCH, rpt, Commissariat a 1ºEnergie Atomique, Fontenay-Aux-Roses, Centre de Etudes Nucleaires, Sections 10-11, pp 299-427. AEC-ANL-Trans-628

Nuclear Prospects in the Belgian Electricity Industry FRENCH, rpt, <u>Financial Bulletin</u>, <u>Bank of</u> <u>Brussels</u> (40, pp 1-7, 10.11.1967 NLL Ref: 9091.9F (Risley 1404)

Safety of Fast Reactors
Review - Aix Conference on Fast Reactor Safety
FRENCH, per, <u>Industries Atomiques</u>, Vol 49,
Nos 9/10, 1967, pp 87-90.
NLL Ref: 9091.9F (Risley 1385)

Nucelar Energy in Spain by M. L. Rodriguez FRENCH, per, New Techniques, Vol 9, B.4, 1967, pp 154-165. NLL Ref: 9091.9F (Risley 1358)

The Design of Prestressed Concrete Pressure Vessels for Muslear Reactors, by Y. Caine. FRENCH, per, <u>Travaur</u>, 1965, pp 453-467. HLL Ref: 9022.09 (4568)

Radio-Active Waste Disposal in the German Federal Republic, by W. Mackenthun GERMAN, per, Atom und Strom, Nos 5/6, 1967, pp 80-82 NLL Ref: 9091.9F (Risley 1332)

The Karlsruhe Compact Sodium-Cooled Nuclear Reactor (KNK) Part II, by R. Harde and K. W. Stohr GERMAN, per, Atomwirtschaft, Vol 11, Nos 8/9, 1966, pp 448-452.
NLL Ref: 9091.9F (Risley 1338)

Atomic Energy Special Report GERMAN, per, <u>Deutscher Forschungsdienst</u>, Vol 12, No 43, pp 212-215. NLL Ref: 9091.9F (Rieley 1397) Scientific Nuclear Science & Technology (Contd)

Radiographic Investigation of the difference of Pure Uranium, by J. Eisenblatter, G. Haase, F. Granzer.
GERMAN, per, Journal of Nuclear Materials, Vol 21, 1967, pp 53-60.
AEC ANL-Tr-601

Production and Properties of Reactor Fuels, by W. Ermischer.
GERMAN, per, Neue Hutte, No 8, 1967, pp 486-491.
*FTD-HT-23-646-68

Kinetics of Radiation Polymerization in Channel Complexes, by L. Kiss, 19 pp.
HUWGARIAN, per, Fagyar Kemiai Folyoirat, Vol 74,
No 3, 1968.
ACSI J-4977
FSTC-HT-23-182-68

Fast Fuel Element Testing Reactor (P.E.C.), Preliminary Design Study, Section II. ITALIAN, rpt, Comitato Nazionale per l'Energia Nucleare, ARV-66-45, Section II, Vol 1, 1966. P911176768-V AEC-ORNI-Tr-1787-Vol 1

Fast Fuel Element Testing Reactor (P.E.C.),
Preliminary Design Study, Section II.

ITALIAN, rpt, Comitate Mazionale per l'Energia
Nucleare, ARV-CC-45, Section II, Vol 2, (Figures)
1966. P911176768-V
AEC-ORNI-Tr-1787-Vol 2

New Plants for Fast Reactor Fuels in France, by J. Saxon ITALIAN, per, Notiziario, Vol 13, No 10, 1967, pp 53-61. NLL Ref: 9091.9F (Dounreay 324)

Study on the Integrated Construction of a Ship Reactor Plant. The Problem of Shielding Design, by Yoshihisa TANAKA.

JAPANESE, rpt, FAPIG, Tokyo, No. 39, 1966, pp 248-253.
*ABC NSJ-Tr 105

Advanced Thermal Reactors and Fuel Cycle, by Hiroji MOCHIZUKI, Ryokichi TANAKA.

JAPANESE, rpt, FAPIG, Tokyo, No 40, 1966, pp 20-25.
*AEC NSJ-Tr 114

The second secon

Scientific Nuclear Science & Technology (Contd)

The Trend in Atomic Power Generation and Uranium Resources, by Toiji Kamiyama, 10 pp.

JAPANESE, per, Genshiryoku Kogyo, Vol 13, No 2, 1967, pp 5-8.

P911176168

AEC-ORNL-Tr-1825

Problems in Critical Calculations for Small Reactors, by Shoichiro Nakamura.

JAPANESE, per, Hitachi Hyoron, Vol 48, 1966, pp 27-32.

AEC WAPD-Trans-85

Experimental Studies of Steam-Water Separator for Boiling Water Reactors. Rept. No. 1. Atomic Energy Dept.. JAPANESE, per, Ishikawajima-Harima Engng. Rev., Vol 5, No 21, 1965, pp 11-19. AEC NSJ-Tr 62

The Experimental Study on the Performance of Pressure Suppression Containment System.

JAPANESE, per, <u>Ishikawajima-Harima</u>
Engng. Rev., Vol 5, No 24, 1965, pp 369-376.

AEC NSJTr 70

Eigenvalue Problem in the Neutron Thermalization, by Hiroshi TAKAHASHI. JAPANESE, per, J. Atomic Energy Soc. Japan, Vol 5, No 11, 1963, pp 944-952. AEC NSJ-Tr 17

Temperature of JPDR Fuel at Loss-of-Collonat Accident, by Yasumasa TOGO, Yoshihide YAMAZAKI.

JAPANESE, per, J. Atomic Energy Soc.
Japan, Vol 6, No 4, 1964, pp 211-217.

AEC NSJ-Tr 40

Radiation Damage of Low Permeability Graphite and Hard Carbon, by Toshio MAUYAMA.

JAPANESE, pcr, J. Atomic Energy Soc. Japan, Vol 8, No 4, 1966, pp 185-194.

*AEC NSJ-Tr 102

Merits of the Nonlinear-scale
Period Meter in Compromising Scramdelay and Fluctuation, by Tomozo
FURUKAWA, Nacaki WAKAYAMA.

JAPANESE, per, J. Atomic Energy
Soc. Japan, Vol 8, No 9, 1966,
pp 486-489.

*AEC NSJ-Tr 101

Scientific Muclear Science & Technology (Contd)

An Evaluating Method for Ground Surface Contamination During Rain, by Michio KAKUTA.

JAPANESE, per, J. Atomic Energy Soc. Japan, Vol 9, No 4, 1967, pp 186-191.

*AEC NSJ-Tr 116

Removal of Radioactive Iodine
Vapor with Ion-Exchanger, by Shigehisa IWAI, Masataka SUGAWARA.
JAPANESE, per, J. Atomic Energy
Soc. Japan, Vol 9, No 5, 1967,
pp 249-258.
*AEC NSJ-Tr 117

On the Properties of Heavy-Section Mn-Mo-Ni Steel Plate for Nuclear Pressure Vessel. O the Properties of Heavy-Section Steel for Nuclear Pressure Vessel-1, by Shinsaku ONODERA, Katao MIYANO.

JAPANESE, per, J. Iron Steel Inst.
Japan, Vol. 52, No 4, 1966, pp

594-596.

*AEC NSJ-Tr 115

Study on the Solidification of High Radioactive Liquid Wate with Cement, Shigehisa IWAI, Yoriteru INOUE. JAPANESE, per, J. Japan Hith.

Phys. Soc., Vol 1, No 1, Sep 1966, pp 12-19.

*AEC NSJ 113

Steel Plate for Nuclear Power Reactors, by Tatsuo YOSHIDA, Katso MIYANO.

JAPANESE, per, Japan Steel Works Tech.
Rev., No 16, 1964, pp 1782-1796.
AEC NSJ-Tr 37

The Zn⁶⁴(n,p)Cu⁶⁴ Reaction with 14 keV Neutrons Energy and Angular Distributions of Protons from Zn⁶⁴ Bombarded by 14 keV Neutrons, by Iwao Fujita, 16 pp.

JAPANESE, per, Kyushu Daigaku Kogaku Shuho, Vol 37, 1965, pp 294-299.

P911161968-V
AEC-ORNIL-Tr-1850

Radient Intensity Determination of Pulsed Photon Beams by Pulse-Height Measurements, by Masakuni NARITA, Hiroaki TANIDA. JAPANESE, per, Oyo Buturi, Tokyo, Vol 32, No 6, 1963, pp 363-367. AEC NSJ-Tr 4

Scientific Nuclear Science & Technology (Contd)

A Quick Response Ionization Survey-Meter, by Teruichi TOMURA.
JAPANESE, per, Oyo Buturi, Tokyo, Vol 32, No 6, 1963, pp 391-397.
AEC NSJ-Tr 3

Radioactivity in Fallout and Natural Radiactivity in Airborne Dust at the Time of the Second Chinese Nuclear Explosion Test, by Akira OHSHINO, Iwashiro OKI.

JAPANESE, rpt, Proc. Osaka Publ.
Hlth. Inst., No 3, 1966, pp 85-88.
AEC NSJ-TT 98

A Trial Method of Determining Uranium and Thorium Content in Rocks by the Radioactive Measurements (2), by Susumu NISHIMURA. JAPANESE, per, Radioisotopes, Vol 15, No 6, 1966, pp 289-294. *AEC NSJ-Tr 103

Committee on Nuclear Energy Founded, 6 pp. RUWANIAN, per, <u>Buletimul Official al RSR</u>, Vol 4, No 77, Part I, 18 June 1968, pp 595-597. JFRS 46,063

Physics

Cyclotron Heating of Plasma Ions and Electrons by High-Frequency Fields, by B. V. Galaktionov, K. M. Novik. RUSSIAN, rpt, 16 pp. ABC-MATT-Trans-60

Damping of a Superhigh-Frequency Field ina Plasma in the Presence of Magnetic Fields Appreciably Greater than the Cyclotron Field, by V. N. Budnikov, V. Ye. Golant. RUSSIAN, rpt, 13 pp. ABC-MATT-Trans-57

Kinetic Equation for Elementary Excitations and Nonlinear Interactions Between Waves in a Plasma, Introduction and Contents, by V. N. Tsytovich. RUSSIAN, rpt, 26 pp. AEC-NP-tr-1678

Validity Conditions of the Random Phase Approximation for Non-Lenear Wave Interaction in a Plasma, by G. M. Zaslavskii. RUSSIAN, rpt, Preprint No 47, 1966, pp 1-8. AEC NP-Tr-1634

Absorption of Microwave Power by a Plasma at Frequencies Below the Electron Cyclotron Frequency, by V. N. Budnikov, V. Ye. Golant. RUSSIAN, rpt, Preprint No 068, pp 1-19. AEC-NP-tr-1668

Flow Intermittance and Heat Transfer in the Leminar. RUSSIAN, per, AN BSSR, Vestsi, Seryia Fisika Tekhnichnykh Navuk, No 1, 1966, pp 43-47. *FTD-MT-24-295-68

Physical Phenomena Accompanying Inductive Action of a Traveling Magnetic Field on a Layer of Liquid Metal, by L. Ya. Ulmanis, 8 pp. RUSSIAN, por, AN LATSSR. Otdeleniya Fizicheskikh i Tekhnicheskikh Nauk. Riga, 1963, pp 3-11. P100156968-V FTD-HT-67-479

Design of a Light-gas Gm With a Light Piston, by S. N. Palkin. RUSSIAN, rpt, AN SSSR. Fiziko-tekhnicheskiy Institut. Aerofizicheskiye Issledovaniye Swerkhzvukovykh Techeniy, 1967, pp 210-218, *FID-MI-24-238-68

Influence of Gamma Irradiation of the Electric Characteristics of Specially Pure Silicon, by S. V. Starodubtsev.
RUSSIAN, per, AN USSSR, Fisiko-Tekhnicheskiy
Institut, Fisicheskiye Svoystva Osobo Chistykh
Metallov i Poluprovodnikov, Tashkent, Isd-vo Fan,
1966, pp 127-133.
*FTD-HT-23-537-68

Effect of Plasma Density on the Results of Spectroscopic, by V. L. Vodvin.
RUSSIAN, per, Atomnaya Energiya, Vol 20, No 2, 1966, pp 148-149.

ACSI J-4151
FSTC-HT-23-298-68

The "Sirit." Closed Hagnetic Trap with Helical Field, by O. B. Biryukov RUSSIAN, per, Atomnaya Epergiya, No 8, 1967, pp 92-102.
NLL Ref: 9091.9F (CTO/436)

Scientific Physics (Contd)

The Longitudinal Magnetic Field in the "Sirius" Racetrack Stellarator, by 0. V. Biryakov RUSSIAN, per, Atomnaya Energiya, No 8, 1967, pp 134-136.
NLL Ref: 9091.9F (CTO/434)

Alignment of the Magnetic System in "Sirius", by P. Ya. Burchenko RUSSIAN, per, Atomnaya energiya, Vol 8, 1967, p 135.
NLL Ref: 9091.9F (CTO/435)

Stress Effect in Indium Antimomide Films, by N. N. Sirota.
RUSSIAN, per, AN BSSR, Doklady, Vol 11, No 10, 1967, pp 891-892.
*FTD-HT-23-716-68

Instability of Discharge with Incandescent Cathode in a Magnetic Field at Low Pressures, by M. A. Vlasov, Ye. I. Dobrokhotov, 41 pp. RUSSIAN, per, Moscow. Institut Atomov Energia. Doklady, No 790, 1964, pp 1-43. F100135668-V FTD-MT-66-110

Electrons and Holes in Semiconductors, by I. M. Tsidilkovskii. HUSSIAN, bk, Elektrony i Dyrki v Poluprovodnikaki. PIENUM PRESS

Temperature Conditions of Evaporative Surfaces at Supercritical Pressures, by M. E. Shitsman, RUSSIAN, per, <u>Elekt. Stantsii</u>, Vol 38, No 2, 1967, pp 27-30.
NLL Ref: 9022.09 (4378)

Effect of Air Content on Heat Transfer During Condensation of Steam, by V. A. Rachko. RUSSIAN, per, <u>Energonashinostroenie</u>, Vol 11, No 8, 1965, pp 17-20. NLL 9022.09 (4328)

Toroidal Configurations with Hegative 'V' and Shear of the Magnetic Field Lines, by C. Gourdon RUSSIAN, rpt, Buratom Report CEA-FC-411, 27 pp. HLL Ref: 9091.9F (CTO/441)

Scientific Physics (Contd)

Structure of the Energy Electron Spectrum of Nidkel in Some Soli Solutions, by I. V. Kavich. RUSSIAN, per, Fiz Metal 1 Metallov, Vol 21, No 4, 1966, pp 632-634. NLL 9022.4 (66/219)

Some Properties of Co-Pt Alloy, by A. G. Rabin'kin. RUSSIAN, per, Fiz Metal 1 Netallov, Vol 21, No 5, 1966, pp 688-692. NIL 9022.4 (66/227,

Penetration of a Longitudinal Electric Field in Confined Plasma, by V. F. Aleksin. Confined Plasma, by V. F. Aleksin.

RISSIAN, rpt, Fistin Plasmy 1 Problemy Unravitations:

Termoladernogo Sintesa: Konferentella po Fistine

Plasmy 1 Probleman Unravitatenogo Termoladernogo

Sintesa. 4th, Kharkov, Ukrainian SSSR, 20-25 May

Sintesa. 4th, Kharkov, Ukrainian SSSR, 20-25 May

1965, pp 96-107.

PFID-MT-24-265-68

Quasi-Linear Theory of Aperiodic Instabilities

Arising in the Interaction of a Bean with a

Plasmy 1 Problema Unravitation of a Bean with a

Plasmy 1 Problema Unravitation of a Bean with a

Plasmy 1 Problema Unravitation of a Bean with a

Plasmy 1 Problema Unravitation of a Bean with a

Plasmy 1 Problema Unravitation of a Bean with a

Plasmy 1 Problema Unravitation of a Bean with a

Plasmy 1 Problema Unravitation of a Bean with a

Plasmy 1 Problema Unravitation of a Bean with a

Plasmy 1 Problema Unravitation of a Bean with a

Plasma, by V. G. Hakhan'kov.

RUBSIAN, rpt, Plasma Unravitation of a Bean with a

Plasma, by V. G. Hakhan'kov.

Sintesa. 4th, Kharkov, Ukrainian SSSR, 20-25 May

Sintesa. 4th, Kharkov,

Plasma Physics and Problems of Controlled Thermonuclear Fusion; Conference on Plasma Physics and Problems of Controlled Thermonuclear Fusion, 4th, by K. D. Sinel'nikov.
RUSSIAN, rpt, Fisika Plasmy i Problemy Upravliaemogo
Thermoladernogo Sintesa, Konferentsiia po Fisike Plasmy i Problemam Upravilaemogo Termoiadernogo Sinteza, 4th, Kharkov, Ukrainian SSR, Doklady, Kiev, Is-vo Naukova, Dumka, 1965, pp 1-544. *FTD-HT-24-288-68

Interaction of Modulated High-Current Palsed Electron Beams with a Plasma Situated in a Longitudinal Hagnetic Field, by A. K. Beresin. tudinal Engactic Field, by A. I. Beresin.

1008148, rpt, Fiella Plagar i Problem Unravilan

Termoladernose Sintess: Innformatella Do Fielda

Plagar i Problema Unravilaneose Termoladernose
Sintess. 4th. Rarkov. Unrainian Sidi. 10-15 hav

1965. Dekladv. Bav. Indatal stro Baskova Dunia.

1965, pp 189-185.

****TD-18-18-265-68

C. C. SPANNER BANK WILLIAM

Characteristics of a Flasm Created by an Electron Bean with Developing Instability, by E.A. Kornilov. RUSSIAN, rpt, Figila Flagmy 1 Problemy Upravliaemore Termoladernore Sinters: Konferenteils po Figika Flagmy 1 Problems Upravliaemore Termoladernore Sinters, 4th, Kharkov, Ukrainian SSSR, 20-25 May 1963, Doklady, Kiev, Igdatal stvo Naukova Dumin, 1965, pp 145-151. •FTD-MT-24-265-68

Asimuthal High-Frequency Fields in the Interact of an Electron Beam with a Plasma, by V.D. Fedorchenko. Fedorohanko.
RUSSIAN, rpt. Fisika Flasmy i Problemy Upravliaemogo
Termoladernogo Sintega; Konferentella po Fisika
Plasmy i Probleman Upravliaemogo Termoladernogo
Sintega. 9th Kharkov. Ukrainian SSSR. 2025 Hay
1963, Doklady, Klev. Isdatel stvo Haulyva Dumka.
1965, pp 152-159.
*FTD-MT-24-265-68

Plasma, by V. G. Hakhan'kov.

RUSSTAN, rpt, Fisika Flasmy i Problemy Unavilaceogo
Termoladarnogo Sintesa: Konferentaila po Fisika
Plasmy i Probleman Unavilaceogo Termoladarnogo
Sintesa. 4th, Kharkov, Ukrainian SSSR, 20-25 Hay
1963, Doklady, Elev, Indatal stvo Haukova Dunka,
1965, pp 190-197.

*FTD-16-24-265-68

Macroscopic Instability of a Plasma in a Pig Bafler, by O. S. Pavlichenko. RUBSIAN, rpt, Finite Flasmy i Problemy Unravlicesomo Termoladernose Sintesa: Emferentalia po Finite Plasmy i Probleman Unravlicesomo Termoladernose Mintesa. 4th. Chartov, Unrainian SECR, 20-25 by 1965, Doklady, New, Indatal stvo Bakova Pasta. 1965, pp 217-224. 4FTD-MC-24-265-68

Plasma Physics and Problems of Controlled Thorn nuclear Pasien, Conference on Plasm Payaics and Problems of Controlled Thermonuclear Pasien, 4th Elarkov, Ukrainian SSR, 20-25 May 1963, Proceedingo.
HUSTIM, 17t., Pinim Planur i Problem Umayliana
Turmoledomaro Sintesa: Emfurentalia no Rusia.
Planur i Problema Dunylianuno Turminianana.
Hintena, 4th. Paritor, Urminian 2001. 20-51 hy
1953. Indian. Rusy. India Universitation. 5, 544 pp. D-10-24-255-68

Mechanism of Sputtering of Solids, by B. M. Gurmin, T. P. Martynenko. RUSSIAN, per, Fizika Tverdogo Tela, Vol 10, 1968, pp 411-414. AEC-ANL-Trans-627

Thin-Film Storage Elements with Nondestructive Information Readout, by V. V. Zvyagintsev. RUSSIAN, rpt, Seminar "Fiziko-Tekhnologicheskive Voprosy Eibernstiki"; Doklady, No 1, 1966, pp 106-122.
*FTD-HT-23-625-68

The Role of Focusing Collisions in the Process of Radiation Annealing of Point Defects in Diamond, by I. V. Al'tovskii HUSSIAN, Report IAE 1091
NLL Ref: 5828.4F (M. 12648)

Plasma Instability at Trapped Particles in Toroidal Geometry, by B. B. Kadomtsev, O. P. Pogutse. RUSSIAN, rpt, Report IAE-1149, pp 1-23. NLL 9091.97 (CTO/316)

X-Ray and Optical Measurements on Tokomak TM-3, by D. A. Shcheglov RUSSIAN, Report IAE-1406, Moscow, July 1967, pp 1-12. NLL Ref: 9091.9F (CTO/438)

Anomalous Resistance of the Pinera in TM-3, by G. A. Bobrovskii RUSSIAN, Report IAE-1408 Moscow, July 1967, pp 1-11. NLL Ref: 9091.9F (CTO/437)

Some Characteristics of the Plasma Column in TM-3 at High Initial Hydrogen Pressures by G. A. Bobrovskii and K. A. Razumova RUSSIAN, Report IAE - Moscow, July 1967, pp 1-12.
NLL Ref: 9091.9F (CTO/439)

The Use of Thermo-Luminescent Alumo-Phosphate Glass in Personnel Neutron Monitors, by I. A. Bochvar.

RUSSIAN, rpt, IABA Symposium on Neutron Monitoring for Radiological Protection, Paper SM/76/48.

1966.

NLL Ref: 9022.09 (451:)

Scientific Physics (Contd)

The Use of Fissile Materials for Neutron Dosimetry, by I. B. Keirim-Markus and S. N. Kraitor.

RUSSIAN, rpt, IABA Symposium on Neutron Dosimetry for Radiological Protection, Paper SM-76/51, 29.8.66 - 2.9.66, 16 pp.

NIL Ref: 9022.09 (4515)

Present State of Research on Plasma Diffusion in Magnetic Fields, by V. E. Golant RUSSIAN, rpt. Rept. 013, Ioffe Inst., 1967, 42 pp. NLL Ref: 9091.9F (CTO/467)

On the Acceleration Mechanism of Plasma Outflow from the Sun, by M. V. Konyukov.

RUSSIAN, rpt, <u>Preprint, Institute of Physics in the Name of P. N. Lebedev</u>, 1967. P910177568-V Sci Tech Info Facility

ST-PP-SP-10721

Use of Mossbauer Spectroscopy to Study "Harenes" Derived from Stanno-Organic Compounds, by V. I. Bregadse, V. I. Gol'danskiy, 7 pp. RUSSIAN, rpt, <u>International Atomic Shersy Agency</u>, <u>Tech Rot Series</u>, No 50, 26-30 Apr 1965. Pl00149268-V FTD-HT-23-664-67

The Flow of a Gas-Liquid Mixture in a Geometrical Nozzle with a Constant Phase Velocity Difference, by V. G. Selivanov and S. D. Frolov, RUBSIAN, per, Inzh. fiz. zh. Vol 12, No 5, 1967, pp 645-649.

NLL Ref: 9091.9F (Risley 1310)

Some Problems in the Mechanics of Flow of Granular Materials, by P. N. Flatonov. RUSSIAN, per, Insh Fis Zh, Vol 12, No 6, 1967, pp 806-812.

NLL Ref: 5828.4F (7117)

Various Methods of Studying the Thermal Diffusivity and Thermal Conductivity in Insulating Powders at Atmospheric Pressure and in a Vacuum, by M. G. Kaganer and R. S.Semenova, RUSSIAN, per, Inzh. Fiz. Zh, Vol 13, No 1, 1967, pp 24-30.
MLL Ref: 9091.9F (Windscale 347)

Scientific Physics (Contd)

Experimental Investigation of Cavitation Character- The Effect of Sound on the Aerodynamic Characteristics of Converging Pressure Wozzles, by G. S. Nazarov. RUSSIAM, per, <u>Inzhenerno-Fizicheskiy Zhurnal</u>, Vol 14, No 3, 1968, pp 423-429. *FTD-HT-23-695-68

Non-Axisymmetric Creep Buckling of Cylindrical Shells, by Yu. M. Volchkov. RUSSIAN, per, Inzhenermyy Zhurnal. Makhanika Tverdogo Tela, No 4, 1967, pp 136-138. *TTD-HT-23-729-68

Thermal Diffusivity and Thermal Conductivity of riotals at High-Temperatures, by O. A. Krayev. RUSSIAN, por, <u>Issled. Vys. Temp. AN SSSR, Sib.</u> Otd., 1966, pp 55-74. *FTD-MT-24-290-68

Ionization Energy Losses of Relativistic Particles, by M. P. Lorikyan. RUSSIAN, per, Ist Ak Nauk Arm SSR, Ser Fiz Mat Nauk, Vol 18, No 6, 1965, pp 109-11. AEC-SLAC-Trans-82

Acoustic Emission from Cavities in a Supersonic Air Flow, by M. G. Morosov. RUSSIAN, per, AN SSSR, Isvestiya. Mekhanika 1
Mashinostroyeniye, No 2, 1960, pp 40-46.

+FTD-MT-24-296-68

A Variational Problem in One-Dimensional Nonequilibrium Gas Dynamics, by N. S. Galyun, A. N. Krayko, 23 pp. RUSSIAN, per, <u>Isvestiva</u>, AN SSSR. Makhanika Zhidkosti i Gasa, No 2, 1966, pp 27-36. Pi00149568-V FTD-HT-23-749-67

The Effect of the Radiation Entropy Layer, by The Arrest St the Hadistick intropy Layer, te. A. Rosdshevskiy, 5 pp.
RUSSIAN, per, <u>Isvestiva</u>, AN SSSR. <u>Mekhanika</u>
<u>Zhidkosti i Gasa</u>, No 2, 1966, pp 182-184.
<u>F100149568-V</u> PTD-HT-23-749-67

The Laminar Boundary Layer on a Sphere in a Hypersonic Flow of Equilibrium Dissociating Air, by I. N. Murainov, 11 pp. RUSSIAN, per, Isvestiva, AN SSSR, Mekbanika Zhidkorti i Gama, No 2, 1966, pp 185-188. P100149568-V PTD-HT-23-749-67

istics of a Turbulent Jet, by Ye, V. Vlasov. RUSSIAN, per, Izvestiya. AN SSSR. Mekhanika Zhidkosti i Gaza, No 4, pp 133-138. *FTD-MT-24-232-68

An Experimental Investigation of Boundary Layer Control by Gas Injection on a Flat Plate at Mac.5. by V. T. Grin'. RUSSIAN, per, AN SSSR, Isvestiva, Mekhanika Zhidkosti i Gaga, No 6, 1967, pp 115-117. FTD-HT-23-611-68

Calculating Heat Transfer on a Elunt-Nosed Body in Hypersonic Flow, by Yu. N. Yermak. RUSSTAN, per, AN SSSR, Isvestiva, Mekhanika Zhidkosti i Gaza, No 6, 1967, pp 153-156. *FTD-HT-23-653-68

Peculiarities of Heat Exchange on the Surface of Some Carrying Bodies Under High Supersonic Velocities, by V. Ya. Borovoy. RUSSIAN, per, Izvestiya, AN SSSR, Mekhanika Zhidkosti I Gaza, No 1, 1968, pp 101-106. *FTD-MT-/ 1-282-68

Fundamental Ideas of the Theory of a Light Field, by A. A. Gershun. RUSSIAN, per, Isv AN SSSR Otd Mat i Est Nauk, 1936, pp 417-430. NIL Ref: 3630.48 (DTC-108)

Determination of Effective Charges of Iron Atoms in Certain Polyferrocenes by X-Ray Spectra of Absorption, by Yu. F. Kopelev, E. Ye. Vaynshteyn, 11 pp. RUSSIAN, per, AN SSSR, Sitirekove Otdelenive. Isvestiya. Seriva Tekhnicheekikh Nauk, No 2, 1964, pp 3-9. Pl00136668-V FTD-MT-66-112

Back Scattering of Laser Emission in Fog and Haze by V. A. Donchenko.
RUSSIAN, per, Izvestiya VUZ Fizika, No 1, 1968,
pp 158-159. *FTD-HT-23-556-68

On the Non-Linear Theory of a Hydrodynamic Beam Instability. II., by V. G. Makhan'kov, B. G. Shichinov. RUSSIAN, rpt, JINR-P9-3690. 8 pp. ABC-CERN-Trans-68-6

Study of the Nature of the Reaction of Surface-Active Substances with Pigments and Fillers by Infrared Spectroscopy, by A. V. Uvarov.
RUSSTAN, per, <u>Lakokrasoch Mater Ikh Primen</u>, No 2, pp 14-18.
*FTD-HT-23-603-68

SiO₂ Influence on Silicon Carbide Growth on Si, by Ya. V. Kalnach. RUSSIAN, per, <u>Lats. PSR Zinal. Akad. Vestis, Fiz,</u> Teh. Zinal Ser, No 6, 1966, pp 99-100. #TD-HT-23-726-68

Effect of Toroidicity on Stellarator Magnetic Surfaces, by I.S. Danilkin and I.K. Karpenko RUSSIAN, rpt, Lebedev Inst. Preprint 114, 1967, 20 pp.
NLL Ref: 9091.9F (CTO/463)

The Influence of the Intercrystalline Barriers on Kinetics of Photoconductivity, by J. Viscakas. RUSSIAN, per, <u>Liet Fis Rinkinys, Liet TSR Mokslu Akad Liet TSR Aukst Mokyklos</u>, Vol 5, No 4, 1966, pp 561-568.
*FTD-HT-23-652-68

Photosensitivity of Sb₂S₃ Single Crystals to I-Rays, by A. Sirvaitis, B. Alekseymas. LITHUANIAN, per, <u>Lietuvos Fisikos Rinkinys</u>, Vol 4, No 4, 1964, pp 551-557. NLL 5828.4F (12035)

Calculation of Flow Velocity at the Inlet to the Pump Impeller of a Hydraulic Coupling During Circulation, by A. K. Tishchenko.
RUSSIAN, per, MYSSO. UKRSSR. Gidroprived i Gidropnevmoavtomatika. Mezhvedomstvennyy Nauchnotekhnicheskiy Sbornik, Vol 2, 1966, pp 199-205.
**FTD-41T-23-725-68

Regularities of Dispersion of Endurance Limit of Structurel Aluminum Alloy, by M. N. Stepnov, 14 pp.

RUSSIAN, per, <u>Machinovedenive</u>, No 4, 1965, pp 93-102. Pl00133668-V
FTD-MT-66-79

Some Hologram Properties, by G. I. Kopylov. RUSSIAN, rpt, Ob'edinennyl Institut Yadernykh Issledovanii-Iaboratoriya Vysokikh Energii, 1966.
NIL 5828.4F (12039)

Scientific Physics (Contd)

Absolute Quantum Yield of the Internal Photoeffect of PbS Chemical Layers, by I. D. Rogovoy. RUSSIAN, per, <u>Optiko-Mekhanicheskaya Promyshlennost</u>' No 1, 1968, pp 7-9. *FTD-HT-23-610-68

Organic Semiconductors and Biopolymers, by L. Boguslavskii, A. Vannikov. RUSSIAN, bk, Organicheskie Poluprovodniki i Biopolimery. PIEMIM PRESS

Oscillatory Structure of a Quasi-Stationary Magnetohydrodynamic Shockwave in a Plasma, by G. G. Dolgov-Savelev, V. K. Malinovskii, Yu. E. Nesterikhin. RUSSIAN, per, Prikladnaya Mat i Mekh, No 4, 1967, pp 111-112.

AEC NP-Tr-1543

The Deformation of Naturally Twisted Beams, by A. K. Rukhadze.
RUSSIAN, per, <u>Prikladnaya Mat i Mekh</u>, Vol 11, No 5, 1947, pp 533-542.
NLL 9022.03 (3829)

Some Problems in the Theory of Asymmetric Elasticity, by E. V. Gorskiy.

RUBSIAN, per, <u>Prikladnava Mekhanika</u>, Vol 3, No 11, 1967, pp 74-83.

*FTD-HT-23-608-68

Turbulent Nonisothermal Jet Flows of Compressible Gas, by A. S. Cinevskiy, 56 pp.
RUSSIAN, per, <u>Promyshlemaya Aerodinardia</u>, No 23, 1962, pp 11-65. Floo150668-V
FTD_MT-66-171

Question of the Possibility of the Use of Models of Turbulent Flow of Prandtl and Taylor in the Solution of Problems on the Turbulent Flow of Gas in the Absence of Rigid Boundaries, by Ye. Ye. Solodkin, 8 pp.

RUBSIAN, per, Promyshlennaya Aerodinamika, No 23, 1962, pp 5-10.

F100150668-V

FTD_MT-66-171

Turning on the Strain-Sensitive Grid of a Cemented-On Sensor During Deformation of an Element Under Study, by A. I. Makeyev. RUSSIAN, per, <u>Samoletostrovenive i Tekhnika Vosdushnogo Flote</u>, No 8, 1966, pp 114-120. *FTD-HT-23-659-68

Strength of Materials, by V. I. Feodos'yev, 520 pp.
RUSSIAN, bk, Soprotivleniye Materialov, 1963, pp 1-539. Pl00134968-V
FTD-MT-65-277

Nature of Induced Anisotropy, by A. G. Leenik. RUSSIAN, rpt, Strukt Svcistva Hetal, Plenok Akad Nauk SSSR. Respub, Heshvedom Sb, 1966, pp 26-39. *FTD-HT-23-614-68

Detailed Spectral Structure of Ruby-Laser Radiation, by Yu. P. Safronov.
RUSSIAN, per, Svetotekhnika, No 1, 1968, pp 11-12.
*FTD-HT-23-712-68

Heat and Mass Transfer in Non-Newtonian Fluids, by A. V. Lykova.

RUSSIAN, bk, Teplo-I Massoobmen v Nenyutonovskikh
Zhidkostyakh, 1968, pp 1-287.

#TD-MT-24-306-68

Turbulent Nonisothermal Flow of a Viscous Compressible Gas in the Initial Segments of Axisymmetric and Plane Diverging Channels with a Zero Pressure Gradient, by Ye. Ye. Solodkin, A. S. Ginevskiy, 18 pp.
RUSSIAN, per, Teplo- i Massoperenos. T. 1:
Konvektivnyy Teploobmen v Odnorodncy Srede,
No 1, 1965, pp 189-202. P100158168-V
FTD-HT-67-250

Heat Transfer in Alkali Metals in Short Vertical Tubes at Low Peclet Numbers and Under the Effect of Natural Convection, by L. G. Volchkov RUSSIAN, per, Teplofiz. Vysok. Temp. Vol 5, No 3, 1967, pp 464-471.
NLL Ref: 9091.9F (Risley 1331)

Experimental Investigation of a Toroidal Discharge in a Variable Longitudinal Magnetic Field, by D. P. Ivanov
RUSSIAN, Report, Thesis to Obtain Learned
Degree of Candidate of the Physico-Mathematical Sciences Moscow, 1967, pp 1-11.
NIL Ref: 9091.9F (CTO/450)

An Experimental Investigation of Heat Transfer and the Momentum in a Trail of a Plate, by A. Slankiyaskas, A. Zukauskas.

RUSSIAN, per. Tr AN Lit SSR Seriya B, Vol 1, No 40, 1965, pp 133-136.

NLL 5828.4F (12026)

Scientific Physics (Contd)

Assessment of the Stiffness of a Parabolic Reflector Loaded by Its Own Weight (Symmetrical Loading), by P. D. Kalachev.
RUSSIAN, per Tr. Fiz. inst. im P. N. Lebedeva,
Vol 38, 1967, pp 72-79.
NLL Ref: 9091.9F (Risley 1403)

Concerning the Question of Methods of Reducing the Grain Size of Cast Alloy Steel by Thermal Treatment by V. D. Sadovskii RUSSIAN, per, Tr. Inst. Fiz. Metallov. Uralsk Fil. AN SSSR, No 17, 1956, pp 3-19.

NLL Ref: 5207 (1256)

Burnout Heat Fluxes Under Forced Water Flow, by G. V. Alekseyev. RUSSIAN, per, Trudy Internatsionalnaya Konfererentsiya po Mirovim Ispolizovaniyam Atomnoy Energii. 3rd Geneva, Vol 8, 1965, pp 295-304. *FTD-HT-23-727-68

Low-Cycle Fatigue Strength of Carbon Steels and High Tensile Steels, by V. A. Bykov, A. S. Fadorov. RUSSIAN, per, <u>Tr Lemingrad Korabl Inst</u>. No 46, 1964, p 87. NIL Ref: 9022.065 (2521)

One-Parameter Solution of Equations of Laminar Boundary Layer in Gas Flow of Large Speeds with the Prendtl not Equal to Unity, by S. M. Kapustyanskiy, 12 pp. RUSSIAN, per, Trudy, Leningred, Politekhnicheskiy Institut, No 265, 1966, pp 24-34. Plont49168-V FTD-MT-24-266-67

Laminar Boundary Layer in Equilibrius-Dissociated Gas, by N. V. Krivtsova, 11 pp.
RUSSIAN, per, Trudy. Laminarud. Politekhnicheskiy
Institut, No 265, 1966, pp 35-45. PlonA9168-V
FTD-MT-24-266-67

12th International Conference on High Energy Physics, Dubna, August 5-15, 1964. Vol I and Vol II.

RUSSIAN, bk, XII Meshdunarodnaya Konferentsiya po Fizike Vysokikh Energii Dubna, 5-15 Avgusta, 1964g. Tom I and Tom 2, 1966, Vol I, 961 pp. Vol II, 565 pp. *CNSTI TT 68-50325

AEC-tr-6882

Independent Stationary Convection Between Two Vertical Co-Axial Cylinders, by A. I. Sorokina, A. A. Chudina. RUSSIAN, per, <u>Uch Zap Molotovsk Gos Univ</u>, Vol 9, No 4, 1966, pp 49-60. NIL Ref: 3774.5 (1515)

Deactivation and Activation of Impurities in Silicon, by K. D. Glinchuk, N. M. Litovchenko. RUSSIAN, per, Ukr Fis Zh, Vol 10, No 2, 1965, pp 172-177.

NIL Ref: 3774-5 (1532)

Crystals with Nonlinear Polarizability, by
I. S. Rez.
RUSSIAN, per, Uspekhi Fizicheskikh Nauk, Vol 93,
No 4, 1967, pp 633-674.
*AFCRL

Interaction of Refractory Transition Metals with Oxygen, by I. L. Kornilov, V. V. Glazova.
RUSSIAN, bk, Vsaimodeistvie Tugoplavkikh Metallov
Perekhodnykh Grupp s Kislorodom, 1967.
PIENUM PRESS

Focusing a Molecular Beam by Means of a Heterogeneous Magnetic Field, by I. M. Korsumskiy, I. M. Fogel. RUSSIAN, per, Zh Eksp Teor Fiz, Vol 21, 1951, pp 25-37. AEC-NRC-TT-1312

Measurement of Thetapinch Parameters in an Azimuthal Magentic Field, by Ya. F. Volkov, V. G. Kyatlov, N. I. Mitina.
RUSSIAN, per, Zhurnal Eksperimental'noi i Teoreticheskol Fiziki, Vol 53, No 5, 1967, pp 1792-1796.
AEC NP-Tr-1633

Investigation of the Surface Properties of Powdered Metallic Catalysts and Adsorbents by the Charging Curve Method, by Yu. A. Podvyazkin, A. I. Shlygin, 11 pp.
RUSSIAN, per, Zh. Fiz. Khim, Vol 31, 1957, pp 1305-1310. P911159868
AEC-BNL-Tr-195

Method of Calculating and Investigating Optical Priam Compensators, by G. I. Belinskaya RUSSIAN, per, <u>Zh. Nauch. i Prik. Fot. i Kinewat.</u> Vol 12, No 2, 1967, pp 113-120. NIL Ref: 5828.4F (12667)

The second section of the second

Scientific Physics (Contd)

Optimum Form of Protection from Polychromatic Camma Radiation, by V. I. Tsvetkov, 10 pp. RUSSIAN, per, Zhurnal Prikladnov Makhaniki I Takhmichaskov Fiziki, No 6, 1965, pp 10-17. P100135868-V FTD-MT-66-108

One-Dimensional Flows of Thermally Nonequilibrium Plasma with a Variable Degree of Ionization in the Absence of Currents, by V. M. Sarychev, 10 pp. RUSSIAN, per, <u>Zhurnal Prikladnov Makhaniki I Tekhnicheskoy Fisiki</u>, No 6, 1965, pp 18-25. Pl.00135868-V FTD-MT-66-108

The Theory of Dry Friction of Rubber-Like Materials, by Yu. A. Buyevich, A. I. Leonov. 10 pp.
RUSSIAN, per, Zhurnal Prikladnov Makhaniki I Tekhmicheskov Fisiki, No 6, 1965, pp 77-83.
Pl00135868-V
FTD-MT-66-108

Effectiveness of a Gas Film on a Tubular Surface, by V. Ia. Levchenko.

RUSSIAN, per, Zhurnal Prikladnoi Mekhaniki i
Tekhnicheskoi Fiziki, Jan-Feb 1966, pp 115-120.

*FTD-HT-23-658-68

Action of a Laser Light Beam on Organic Glass (Plexiglass), by A. I. Akimov, L. I. Mirkin.
RUSSIAN, per, Zhurnal Prikl Mekh Tekh
Fiz, No 6, 1966, pp 14-18.
AEC SC-T-68-1505

Finatics of Discharge of KCI, MaCI and AgCI Single Crystals and Amorphous Salenium Layers, by V. V. Pospelov.
RUSSIAN, per, Zh Mauch i Prik Foto i Kinemat.
Vol 10, No 6, 1965, pp 433-438.
HIL 5828.4F (12058)

Random Instability of Non-Linear Oscillations. by G. M. Zaslavskii RUSSIAN, per, <u>Zh. Prik. Mekh. i Tekh. Fiz.</u>, No 2, 1967, pp 16-22. NLL Ref: 9091.9F (CTO/426)

A One-Step Nethod of Preparing Oscillograms, by B. I. Petrov
RUSSIAN, per, Zh. Nauch. 1 Prik. Fot. 1
Kinemat, Vol 12, No 2, 1967, pp 146-147.
NLL Ref: 5828.4F (12659)

Study of the Thermodiffusion in Gases From Infrared Absorption Spectra, by N. A. Borisevich. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 5, No 3, 1966, pp 355-359.
*FTD-HT-23-737-68

Diffusion in a Mixture of Ideal Gases, by
Ye. Ye. Shnol'.
RUSSIAN, per, Zhurnal Vychisletel'noy Matematiki
i Matematicheskoy Fiziki, Vol 7, No 6, 1967,
pp 1416-1422.
AEC SC-T-68-1525

Some Theoretical Aspects of Dynamic Testing Technology, by V. F. Moiseev, V. I. Trefilov, 14 pp.

UKRAINIAN, per, Mekhanizm Razrusheniia Metallov, 1966, pp 113-122. P911159568-V

AEC-SG-T-68-1511

The Diffusion of Phosphorus in an Oxide Layer on a Silicon Surface, by K*o-Ch*eng Li, Shih-yung Ksueh, 12 pp. CHIMESE, per, Au Li Hsueh Pao (Acta Physica Sinica), Vol 21, No 3, 1965, pp 481-475. P100156268-V

Electron-Phonon Coupling in the Problem of Impurity Absorption Band (I), by Yin-Yuan Li, Ko-Hung Chou, 27 pp.
CHINESE, per, Mu Li Hsuch Pac (Acta Physica Sinica), Vol 21, No 3, 1965, pp 496-502.
P100156268-V
FTD-HT-67-159

Probability Interpretation of Energy Balances in Optics of Thin Films, by L. Dunajsky, 13 pp. CZECH, per, <u>Ceskoslovensky Casopis Pro Fysiku</u>, Vol 14, No 6, 1964, pp 493-500. P100155768-V FTD-HT-67-123

Vibrations of Annular Nembranes, by V. Vodicka, 7 pp. CZECH, per, Ceskoslovensky Casopis Pro Fysiku, Vol 14, No 6, 1964, pp 501-505. P100155768-VFTD-HT-67-123

Investigation Into the Filling of a Toroidel Magnetic Configuration by the Injection of Fast Neutrals, by M. Fumelli, J. P. Girard. FRENCH, rpt, EUR-CEA-PC-432.
ABC UCRL-Trans-10223

Scientific Physics (Contd)

Suction Losses of Sharp-Lip Air Intakes, by E. Soffker and A. Renner FRENCH, Report DLR.FB 65-26. NLL Ref: 5207 (1246)

A Method of Preparing Flutonium Screens for Soft X-Ray Spectrography, by L. de Bersuder, 21 pp.
FRENCH, rpt, Commissariat a l'Energie Atomique.
Fontenay-Aux-Roses Centre d'Etudes, Rpt No CEA-2338, 1963. P911162668
AEC-UCRL-Tr-10232

Variation of the Composition of an Ion Beam from a High Frequency Ion Source Operating with Hydrogen at Different Pressures, by F. M. Devienne and J. C. Roustan.

FRENCH, per, Comptes rendus Acad. Sci., Vol 262, 1966, pp 616-619.

KIL Ref: 9091.9F (CTO/452)

Determination of the Eristence and of Certain Special Properties of Triatomic Molecular Hydrogen Jets, by F. M. Devienne and J. C. Roustan.

FRENCH, per, Comptes rendus Acad. sci, Vol 263, 1966, pp 1389-1392.

MLL Ref: 9091.9F (CTO/453)

Existence and Properties of Triatomic Dueterium Molecular Jets, by F. Marcel Devienne. FRENCH, per, Comptes Rendus, Acad Sci Paris, Vol 264, 17 May 1967, pp 1400-1403. P911202268-V AEC-NP-tr-1637

Electrostatic Instability Due to a Density Gradient for a Distribution Function Having a Loss Cone, by J. P. Girard, F. Hennion, 33 pp. FRENCH, rpt, <u>Euratom-CEA Joint Fusion Research</u>, Rpt No DPh-PFC/SRACP, 12 May 1967. P911084768-V AEC-UCRL-Tr-10203

Calculation of Linerar Energy Transfer of Various Types of Radiation in Liquids Usable as Filling in Ionization Chambers, by Jacques Mathieu, Jean-Paul Patau.

FRENCH, per, Health Physics, Vol 14, 1968, pp 141-149.

P911200668-V

ABC-SLAC-Trans-81

Thermodynamics Calculation of the Distribution Coefficient Between the Liquid and Solid Phases of an Element in Dilute Solution in a Metal: Application of the Purification of Beryllium, by P. Desre, B. Schaub.

PRENCH, rpt, Presented at IAEA Symposium on Thermodynamics, Vienna, 1965, 7p.

ABC-GRNL-tr-1797

Forward-Diffused Light by a Spherical Water Drop, by J. Bricard.
FRENCH, per, Journal Phys Radium, Vol 4, 1943, pp 51-64.
AEC-LA-tr-68-25

Laws Governing the Flow of Gases Through Porous Nedia, by Soubbaramayer, 34 pp.
FRENCH, rpt Lois de l'ecoulement des gaz a travers les milieux poreux, CEA No 91, June 1967.
AEC-SC-T-68-1523
P911173768-V

Recent Advances in Coherent Optics:
Filtering of Spatial Frequencies;
Holography, by Serge Lowenthal,
Yves Belvaux.
FRENCH, per, Revue d'Optique, Theorique
et Instrumentale, Vol 46, No 1, 1967,
pp 1-64.
RSIC-769

Theoretical and Experimental Aspects of the Condensation of Gold Plasmas on Solid Substances, by Perny, 20 pp.
FRENCH, rpt, 2nd Colloquium on Thin Films,
Eudapest Lecture, No 41, 27 Jun-2 Jul 1965.
ACSI J-5040
FSTC-HT-23-392-68

Retreatment of Irradiated Puels. Safety Calculations for Neutron and Gamma Radiation, by F. Servais.
FRENCH, rpt, Societe Belge pour l;industrie Nucleaire 35, Rue Des Colonies, Bruxelles 1. P911200368-V
ABC-ANL-Trans-618

Photoproduction of rho -Mesons in a Hydrogen Bubble Chamber at Photon Energy Levels up to 5.8 GeV, by H. Spitzer. GERMAN, rpt, DESY-F-1/4. 125 pp. AEC SLAC-Trans-79

Investigation of Electromagnetic Wave Propagation in a Cylindrical Plasma with Magnetic Field, by K. Weinhardt GERMAN, rpt, Garching Report IPP 2/59, 1967, pp 1-57. NLL Ref: 9091.9F (CTO/460)

Neutrons from d-d Reactions as a Tool for Plasma Diagnostics, by 0. Lehner, F. Pohl, 43 pp.
GERMAN, rpt, Institute for Plasma Physics, Mar 1967.

ABC-LA-Tr-67-113

Scientific
Physics (Contd)

Investigation of Ionization of Hydrogen in Toroidal Electric Fields with Microwaves, by H. Beerwald GERMAN, rpt, Report Jul-480-FP, 1967, pp 1-51. NLL Ref: 9091.9F (CTO/444)

On the Influence of the Addition of Heat to Hypersonic Flow, by J. Zierep. GERMAN, per, <u>Acta Mechanics</u>, Vol 2, No 2, 1966, pp 217-230.
NLL Ref: 5207 (1222)

New Equations of Heat Transfer in a Natural or Forced Flow, by H. Hausen.

GERMAN, per, Allg Waermetch, Vol 9, No 4-5, 1959, pp 75-79.

AEC-NP-tr-1661

The Hot-Wire Method of Measuring the Thermal Conductivity of Refractory Materials and Insulating Bricks, by H. E. Schwiete and K. D. Dohm.

GERMAN, per, Archiv Fur Das Eisenhuttenwesen, Vol 38, No 5, 1967, pp 411-414.

NLL Ref: 9022.046 (98)

Suitability of Neutron Sensitive Foils for the Dosimetry of Thermal Neutrons by Means of Pocket Ion Chambers, by P. Adler GERMAN, per, Atomkernenergie, Vol 11, No 1, 1966, pp 65-70. NLL Ref: 9091.9F (Windscale 323)

On the Influence of the Average Composition in the State of the Coherent Miscibility Gap, by J. Lasek, 11 pr. GERMAN, per, Czech, J. Physics, Vol 15, 1965, pp 848-857. P911162968
AEC-ORMIL-Tr-1868

The Temperature-Dependence of Magnetic Properties of Permanent Magnet Materials, by H. Dietrich GERMAN, per, Elek. Tech. Zeit, Vol 88A, 1967, pp 534-537.
NLL Ref: 9022.4 (67/363)

Permissible Heating Up and Cooling Rates in Thick thiled Pipes, by G. Grass.
GERMAN, per, Mittellungen VOB, Vol 57, 1958, pp 338-348.
HLL Ref: 3774-5 (1710)

Electron Beam Processing of Adhesive Masks, by M. von Ardenne, M. Neumann, 17 pp. GERMAN, per, <u>Nachrichtentechnik</u>, May 1968, pp 161-167. JPRS 45755

On the Metallurgy of Electron-Beam Melting.
Part I. Measurement of Steel Bath Temperature
with an Objective Color Pyrometer, by Fred Esser,
Gerhard Scharf,
GERMAN, per, Neue Huette, Vol 10, 1965, pp 333338.
AEC UCRL-Trans-10215

Unscrambling Continuous Gamma—Pulse Height Distributions, by W. Kreische, 16 pp. GERMAN, per, Nuclear Instruments and Methods, Vol 42, 1966, pp 188-196. P500145568_V Dept of Navy NIC tr 2612

Mean Beta Activity of the Fission Product Total as a Function of the Time after Thermal Fission of U²³³, U²³⁵ and Pu²³⁹, by H.Seyfarth GERMAN, per, Nukleonik, Vol 10, No 4, 1967, pp 193-202.

MLL Ref: 9091.9F (Risley 1407)

Technology of Rapid Optical Shutters, by D. Ebeling, F. Fruengel. GERMAN, per. Optik, Vol 25, 1967, pp 359-376. AEC SC-T-68-1507

Thereocouples and the Reproducibility of Their Parameters, Criteria for Their Unability as Thereometers, by W. Goedecke. GERMAN, rpt, <u>Siebers Festschrifts</u>, 1931, pp 72-97.

HLL Ref: 5828.4F (12594)

Co Depolarization Effects in Polycrystalline BaTiO₂, by H. Kniepkamp and W. Heywang OKRMAR, per, Zeit. Fur Ang. Phys. Vol 6, No 9, 1954, pp 385-390.
HLL Ref: 6180.59 (1625)

Particle Optical Characterisites of an Electrostatic Deflection in a Magnetic Field, by Rolf W. Mueller.
GERMAN, per, Zeit Angew Phys, Vol 18, 1965, pp 342-345.
ABC UCRL-Trans-10214

NUMBER OF THE WARRANT WAY

Scientific Physics (Contd)

Mass Spectrometric Investigation of Beams of Condensed Hydrogen, by W. Henkes. GERMAN, per, Zeitschrift für Naturforschung, Vol 17 A, 1962.

Negative Ions from Alkali Halides and Electron Affinities of Alkali Metals and Alkali Halides, by H. Ebinghaus. GERMAN, per, Zeit Naturforsch, Vol 19 A, 1964, pp 727-732. ABC-NRC-TT-1316

Determination of the Masses of Ionized Clusters in Condensed Molecular Beams by an Electrical Retarding Field Method, by J. Bauchert, and O. F.Hagena.

GERMAN, per, Zeit. Naturforschung, Vol 20a, 1965, pp 1135-1142.

NLL Ref: 9091.9F (Risley 1357)

The Critical Shear Stress of Cubic Crystals with Defects of Tetragonal Symmetry. I. On the Short-Range Interaction of Dislocations with Elastic Dipeles, by Frank Werner. GERMAN, per, Zeit Naturforsch, Vol 22 A, 1967, pp 365-376.

AEC ORNL-tr-1889

Optical Absorption and Photochemical Behaviour of 8H', 8' and 8" Centres in KCl Crystals, by F. Fischer and H. Grundig GENMAN, per, Zeit. Fur Physik, Vol 184, No 3, 1965, pp 299-309. NIL Ref: 5828.4F (M. 12650)

Electron Spin Resonance in Alkali Halide Crystals Containing Sulfur and Selenium, by A. Hausmann. GERMAN, per; Zeit für Physik, Vol 192, 1966, pp 313-328. ABC-NRC-TT-1311

The Viscosity of Some Gases and Vapors. II. Hg, Cd and Zn, by H. Braune, R. Basch.
GERMAN, per, Zeit Phys Chem, Vol 137 A, 1928, pp 447-457.
ABC-ANL-Trans-615

Contribution to the Determination of the Heat Masipation in Cil Dusts of Transformers with Natural Cooling, by R. Thiele. GRMMM, per, <u>Seit for Tack Phys</u>, No 11, 1941, pp 267-300. MLL Ref: 3774-5 (1709)

Instrument for the Measurement of Radiation Intensity.
GERMAN, Patent No 1,194,068.
ACSI J-4054
ID 2284062867

The Effect of Fluctuation of the Internal Magnetic Field on the Mossbauer Effect, by L. Pal HUNGARIAN, per, Acta Physica Acad. Sci. Hung. Vol 23, No 2, 1967, pp 161-183. NLL Ref: 5828.4F (7119)

Investigation of the Fluorescence of Optical Brighteners, by S. Andras HUNGARIAN, per, Kolorisztikai Ertecito, Vol 8, 1966, pp 54-63.
NIL Ref: 5828.4F (12652)

Exploratory Calculations Regarding the Liberation of Fission Products from Irrediated Fuel Elements, from the Transport Aspect. Part 1, by R. Grostini and A. Rossi.

ITALIAN, rpt, Report EUR 3623 f.
NIL Ref: 9091.9F (Risley 1396)

The Movement of Mixtures of Air and Water in Flow under Pressure. New Experimental Results by V. Mongiardini. ITALIAN, per, Acqua, Vol 2, 1966, pp 31-46. NLL Ref: 5196 (1411)

The Crystalline Structure of Polypivalolactone, Part 1, by G. Carazzolo ITALIAN, per, Chimia e L'Industria, Vol 46, 1964, pp 525-529.
NLL Ref: 5828.4F (7129)

Anodic Oxidation of Aluminum at High Current Densities, by Michiko Shirmura, Sakae Tajama.

JAPANESE, per, Denki Kagaku, Vol 35, 1967,
pp 220-225. P911200868-V

ABC-UCRL-Trans-10239

On the Electrical Conductivity of a Neakly Ionized Turbulent Plasma (1), by Kyoji NISHIKAWA. JAPANESE, per, <u>Kakuyugo Kenkyu</u>, Nagoya, Voi 16, No 5, 1966, pp 348-359. *AEC NSJ-Tr 122

このともを確かしている かんか かいしょうかん しょうしゃ

Scientific Physics (Contd)

Some Results of Investigations on the Break-Up of a Film of Water and the Motion of Drops of Water in the Aerodynamic Wake, by R. Puzyrewski and B. Krzeczkowski POLIBH, per, <u>Prace Inst. Maszyn Przepl</u>, Nos. 29-31, 1966, pp 21-43. NLL Ref: 9022.09 (3794)

Notes on the Kinematics of the Liquid Flow Phase as Compared with Operational Experience in the Sphere of Blade Erosion, by R.Szewalski POLIBH, rpt, <u>Proceedings of the Institute of</u> Fluid Flow Machines, Nos. 29-31, 1966, pp 123-140. NLL Ref: 9022.09 (3813) Jul 68

Determination of the Optimum Dimensions of a Vertical Annular Channel in Naterial Cooled by Free Convection, by Jerzy Tomeczek. POLISH, per, Zesz Nauk Politech Slaska Energ, No 22, 1966, pp 97-110.

AEC-MLM-1507(tr)

In the Beginning There was Atom and WA, by Wojciech Kozlowicz, ? pp. POLISH, per, Zolnierz Wolnosci, No 10 (5326), 12 Jan 1968.

ACSI J-4906
FSTC-HT-23-37-68

Rumania Produces Ultrashort Electromagnetic Waves, by Emil Lazarescu, 6 pp.
RUMANIAH, per, <u>Progresele Stiintei</u>, Nay 1968, pp 21/1-216.
JPRS 46,063

Propulsion & Fuels

Effect of Piscion Product Higherton on Paul Element Burn-Up Heasurements, by O. A. Hiller. RUSSIAN, per, <u>Atomora Sacretra</u>, Vol 23, No 2, 1967, pp 124-125. HLL Ref: 9091.9F (Downesy 307)

Aircraft Engines, by V. A. Tyutyunov. RUSSIAN, bk, <u>Aviatsionnyve Dvisateli, Noscow. Iad-vo "Mashinostrovenive"</u>, 1964, 368 pp. *FTD-NY-24-286-68

Scientific
Propulsion & Fuels (Contd)

Automatic Regulation and Control of Jet Engines, by V. A. Cherkasov. RUSSIAN, bk, Avtomatika i Regulirovaniye Vozdushchno Reaktivnykh Dvigateley, Moscow, 1965, 403 pp. *FTD-MT-24-237-68

Dynamic Processes in Liquid-Fuel Rocket Engines, by Ye. K. Moshkin. RUSSIAN, bk, <u>Dinamicheskiye Protsessy v ZhRD</u>, <u>Mashinostroyeniye</u>, <u>Chapter I. II</u>, 1964, pp 1-169. *TD-HT-23-740-680

Experimental Investigation of the Electrical Conductivity of Combustion Products Stimulated by Solid Particles, by E. P. Zimin.
RUSSIAN, per, Eksperimentalnove Issledovaniye
Elektroprovodnosti Produktov Sgoraniya,
Stimulirovannov Tverdymd Chastitsami, SM-107/54,
pp 1-14.
**TTD-MT-24-183-68

Experimental Investigation of the Effect of the Excess Fuel Coefficient on the Electrical Conductivity of Potassium-Seeded Hydrocarbon Combustion Products, by S. A. Goldanberg.
MUSSIAN, per, Eksperimentalnoye Issledovaniye Vliyaniya Koeffitsiyenta Isbytka Topliva NA Elektroprovodnost Produktov Sgoraniya Uglevodo-Rodnykh Topliv S Dobavkov Kaliya, pp 1-9.

GTU (Gas Turbine Unit) Gas Inlet Temperature Measurement Based on Indirect Parameters, by 3. A. Kantor. RUSSIAN, per, <u>Energonashinostrovenive</u>, No 12, 1963, pp 12-15. *FTD-HT-23-718-68

Statistical Evaluation of Turbo-Set Reliability, by V. F. Kalashnikov
RUSSIAN, per, <u>Resymmashinostroenie</u>, Vol 12, No 10, 1966, pp 36-38.
MLL Ref: 9022.09 (3743)

Temperature Distribution in the Rotor and Housing of the GI-750-6 Gas Turbine, by A. L. Disnetsov. RUSSIAN, per, Reserves shine strevenive, He 12, 1967, pp 15-16.

*FID-HR-23-717-68

Scientific
Propulsion & Fuels (Contd)

Investigation of Turbo-Machine Blade Strength and Vibration Characteristics under Impulse Loading, by A. A. Petrov RUSSIAN, per, Energomashinostroenie, Vol 13, No 2, 1967, pp 13-14.
NLL Ref: 9022.09 (4735)

On the Heat Theory of Ignition, by V. N. Vilyunov. RUSSIAN, per, Fizika Goreniya I Vzryva, No 2, 1966, pp 77-82.

#FTD-HT-23-739-68

Research into Water Turbine Valves, by V. I. Yanshin RUSSIAN, rpt, "Hydroturbo 67" Pub. 1967 CSSR NLL Ref: 3774.5 (1721)

Measurements of the Temperature of Plasmas in MHD Ducts and Combustion Chambers by Recording Absolute Spectral Line Intensities, by SH. Sukever. RUSSIAN, per, Izmereniya Temperatury Plasmy v MHD-Generatorakh i v Kamerakh Sgoraniya Netodom Registratsii Absolyutnykh Intensivnostey Spektralnykh Idniy,SM-107/94, pp 1-20.

Transition of a Combustion Mixture from Supersonic Flow to the Chapman-Jouget Regime, by S. M. Gilinskiy.
RUESIAN, per, Isveetiva. AN SSSR. Mekbanika
Zhidkosti i Gama, No 3, 1967, pp 137-140.

Supersonic Flow of a Combustible Gas Mixture Around a Sphere Taking into Account the Ignition Delay Time, by S. M. Gilinskiy.

RUSSIAN, per, AN SSSR, Isvestiya, Nekhanika
Zhidkosti i Gasa, No 1, 1968, pp 20-30.

*FTD-NT-24-207-68

The Effect of Incomplete Mixing on the Efficiency of a Bypase Turbojet Engine, by Ye. D. Stenkin. MUSSIAN, per, IVUE. Aviateionnays Tekhnika, No 3, 1967, pp 75-82.

#TD-MT-24-300-68

Flame Stability Conditions in the Hypase Duct Combustion Chambers of Hypase Turojet Engines, by A. V. Talantov. MUSSIAN, per, IVUZ. Aviatsionnaya Tekhnika, No 3, 1967, pp 83-88. GTD-HT-24-300-68 Scientific Propulsion & Fuels (Contd)

Mixing of Gas Streams in Combustion Chambers, by B. Kh. Draganov. RUSSIAN, rpt, Kharkov. Politekhnicheskiv Institut. Energeticheskove Mashinostrovenive. Teploobmen i Gasodinewika, No 1, 1966, pp 68-72. *FTD-MT-24-257-68

Diesel Fuel From Mangyshlak Crude, by M. G. Mitrofanov, F. A. Berezyuk, 7 pp. RUSSIAM, per, Khimiya i Tekhnologiya Topliv i Masel, Mo 4, 1968, pp 19-21.

JPRS 45,613

Racrokinetic Characteristics of Turbulent Flames (Kinetic Pasis of the "Pulsating Ignition" Model), by A. S. Sokolik.

RUSSIAN, per, Nauchno Tekhnicheskoye Obshchestvo Energeticheskoy Promyshlennosti, Tsentral nove Pravleniye, Sektsiya Gazifikatsii, Tooriya i Praktika Szyiganiya Gaza, Vol 3, 1967, pp 150-167.

***HTD-17-24-289-68**

The Mechanism of Cecillatory Combustion of a Gas, by O. G. Roginskiy.

RUSSIAN, per, Nauchno-Tekimicheekoye Chehohestvo
Energeticheekoy Promyshlemosti. Tsentral-nove
Prevleniye. Sektsiva Gasifikatsii. Teoriya 1
Prektika Sahiganiya Gasa, Vol 3, 1967, pp 261271.

*FTD-MT-24-274-68

Matching of Paremeters of Compressors and Turbines in Aviation Gas-Turbine Engines, by K. V. Khalahchevaikov.
RUSSIAN, Mon. Sociasovanive Parametrov Kompressora i Turbiny v Aviateicomych Gasoturbinnych Dvisatei-yalt. Isd-vo Machinostrovanive, 1905, 200 pp. 9771-87-23-657-65C

Gas Symamics of a Variable Supersonic Plug Nosale, by T. Gajewski. RUSSIAM, per, <u>Technika Lotnicsa I Astronautyczna</u>, No 4, 1967, pp 12-16. *FTD-HT-23-661-68C

Thermodynamic Properties and Combustion-Product Transfer Properties of Hydrocarbon Fuels at Temperatures up to 4,000°K, by Ye. V. Samylov. RUBSIAH, per, <u>Termodinanticheskiye Svoystva i Svoystva Farenosa Produktov Gorandya a Uglavodorodnykh Topliv Fri Temperaturakh Do 4,000°K, pp 1-35.</u>

Contract to the second

Scientific
Propulsion & Fuels (Contd)

Acceleration of Gas During its Compression in a System with Acute-Angled Geometry, by A. Ye. Voytenko.
RUSSIAN, per, Zhurnal Prikladnoy Nekhaniki i Tekhnicheskoy Fiziki, No 4, 1966, pp 112-116.
*FTD-MT-24-281-68

Air Supply System for Cas Turbine Engine Installed on a Test Stand, by Iu. S. Sergeyev.
RUSSIAN, Patent No 158126, Class 52.
*FTD-Hr-23-646-68B

Pump Unit for Two-Circuit Fuel Systems For Power Plants, by L. S. Arinnshkin.
RUSSIAN, per, Patent: 187527, 1966, 0500763, p 194.
#TD-HT-23-721-68

Experimental Combustion Chamber for a Liquid Propellant Rocket Engine, by D. L. Abugov. RUSSIAN, Patent No 199571. Class 46. *FTD-HT-23-6W4-68K

Combined Gas-Steam Cycles, by G. Porte and P. P. Chaffiotte FRENCH, per, Entropie, No 11, 1966, pp 41-50. NLL Ref: 9022.09 (4605)

General Gap Equation for Heat Transfer Between Fuel and Can in Fuel Elements with Pellet Fuel, by H. Kampf GERMAN Report KFK-604 NLL Ref: 9091.9F (Dounrey 316)

Ignition of Assemble Perchlorate at Different Prescures, by T. Harklund. GERMAN, rpt, FOA 2 Report A 2722-242. NLL Ref: 5207 (1845)

End Bells of AEG Turbo-Generators Secured by Screw Tensioning, by D. Lambrecht and E. Weghaupt GERMAN, pcr, AEG Mitteilungen, Vol 56, No 3, 1966, pp 183-189. MLL Ref: 3774.5 (1724) Scientific Propulsion & Fuels (Contd)

Combustion Product Phenomena Encountered Upon Firing High-Speed Conical Projectiles into Oxyhydrogen Gas, by H. Behrens, 29 pp. GERMAN, rpt, Franco-German Research Institute, St Louis, Technical Report T41/64, 21 Dec 1964. ACSI J-5064 FSTC-HT-23-72-68A

Combustion of Fuel Cil with Low Excess Air, by K. Kohler.
GERMAN, per, <u>Tech Uberwach</u>, Vol 8, Har 1967, pp 87-95.
HIL Ref: 9022.09 (4676)

Improvement of Wear Resistance of Cylinder Liner in Large Harine Diesel Engines (by Porous Chorme Flating), by T. Hatsunaga. JAPAWESE, per, Kansai Zosen Kyokai-shi, He 110, 1963, p 27. HLL 9022.065 (2400)

Some Carbonaceous Products Produced During Combustion of Liquid Hydrocarbon Fuel, by T. Sakai, S. Sugiyam.

JAPANESE, per, Kogro Kasaku Zasshi, Vol 68, No 4, 1965, pp 736-737.

NLL Ref: 9022.09 (4488)

Wear of Cylinder Idners, Part 1, by T. Mahano. JAPANESE, per, <u>Mihon Kokai Galdaishi</u>, Vol 31, 1964, p 53. MIL 9022.065 (2399)

Ges Dynamics of a Variable Supersonic Fing Nossle, by T. Gajesski. POLISH, per, <u>Technika Lotnicsa i Astronautycsna</u>, Ho h, 1967, pp 12-16. GTD-HT-23-722-680

The Development of Fuels and Power Summed Up, by Gwido Preci, 28 pp. SERBO-CROATIAN, per, <u>Jugoslovenski Preslad</u>, Jan 1968, pp 11-18.
JFRS 45,864

العاملات والمعجودين الماليونون والإنجاد للهوا المرا

Scientific Space Technology

The Dawn of the Space Era, by Yu. Pobedonostsev. RUSSIAN, per, <u>Krylya Rodiny</u>, No 10, 1967, pp 14-17.
#FTD-NF-24-297-68

Determining the Probabilistic of the Parameters of Perturbed Motion of an Artificial Earth Satellite, by I. V. Ignatov, 8 pp.

RUSSIAN, per, Prikladnaya Mekhanika, Vol 1, No 12, 1965, pp 82-86. P100157968-V FTD-HI-23-871-67

First Moon Television Transmission.
RUSSIAN, per, <u>Tekh Kino 1 Televid</u>, Vol 10, No 3, 1966.
RIL 5828.AF (12047)

Determining the Augular Elements for the External Orientation of Pictures Taken from Meteorological Satellites, by V. I. Solov'yev.
RUSSIAN, per, Truty, Gidrometeorologicheskiy Mauchno-Issledowatel'skiy Tsentr SSSR, Vorrosy Sputnikovov Meteorologii, No 11, 1967, pp 111-117.
*FTD-MT-24-278-68

Development in the Area of Telec Satellites, by Bertil Haard, 30 pp. SWEDISH, per, <u>Kiteknik</u>, Hay 1967. DIA LN 126-68

People and Space, by G. Pokrovskiy. RUSSIAN, per, <u>Vovennyve Znaniva</u>, No 6, 1967, pp 36-37. *FTD-HT-23-675-68

Miscellaneous

Carbon Dioxide High Power Installation, by D. P. Gokhshteyn. RMSSIAN *FTD-MT-24-230-68

Ashdovements of Science: Geophysics 1962. MUSIAN, bk, 1964. NLL Ref: 6015.69P (383)

Models with Flapping Mings, by G. Visil'ev. MUSSIAN, rpt, Moscow, 1960. NLL 5207 (1172)

Scientific Miscellaneous (Contd)

Design of Physical Experiments (Review), by A. Pazman, V. V. Fedorov RUSSIAN, rpt, JINR-P1-3612, 50 pp. AEC-ANL-Trans-620

Annual Meeting of Azerbaydzhan Academy of Sciences Analyzes Progress, 7 pp. RUSSIAN, per, Bakinskiy Rabochiy, 25 May 1968, p 2. JPRS 45,915

Super Pressure, by L. Korolev, 7 pp. RISSIAN, np. <u>Bronomicheskaya Gazeta</u>, No 5, 1966, pp 43-44. Pl00138268 FTD-HT-66-647

Achievements of Latvian SSSR Academy of Sciences in 1967 and Future Goals, by K. K. Plaude, 19 pp. RESSIAN, per, Isvestiva Akedemii Nauk Istvivskov SSR, No 3, 1968, pp 3-16. JPRS 45770

The Development of Science in Soviet Turkmenistan, by P. Azimov, S. R. Sergiyenko, 20 pp.
RUSSIAN, per, Izvestiya Akademii Nauk Turkmenskoy
SSR, Seriya Fiziko-Tekhnicheskikh, Khimicheskikh
I Geologicheskikh Nauk, No 5, 1967, pp 3-16.
JPRS 45,617

Satisfying the Seasonal Demand for Petroleum Products, by V. S. Akimov, V. I. Gubernskiy, RUSSIAN, per, Khimiya i Tekhnologiya Topliv i Hasel, No 4, 1968, pp 35-37.

JPRS 45,613

From the Editor, by A. I. Berg, 6 pp. RUSSIAN, per, <u>Kibernetiku na Slushbu Kommunisma</u>, Vol 4, 1967, pp 5-9.
JPRS 45,606

First Explorers of the Space Age, by V. Denisov, 6 pp.
RUSSIAN, per, Kommunist Voorusbennykh Sil, No 7,
Apr 1968, pp 90-92.
JPRS 45,601

RUSSIAN, per, <u>Kusnechno-Shtampovochnove Proisvodstvo</u>, RUSSIAN, per, <u>Starshina Serghant</u>, No 2, No 1, 1960, pp 10-14.

P500062868

Dapt of Marro HTC

Scientific Miscellaneous (Contd)

Third All-Union Conference on Information-Search Systems and the Automated Processing of Scientific-Technical Information. RUSSIAN, per, Nauchno-Tekhnicheskaya Informatsiya.
Seriya 2, Informatsionnyye Protsessy i Sistemy,
No 6, 1967, pp 26-29.
*FFD-Hf-23-676-68

Dynamic Integral Systems. Control Concept, by V. G. Afanas'yev, 26 pp.
RUSSIAN, bk, "Nauchnoye Upravleniye Obshchestvom",
1968, pp 7-32.
JPRS 45,598

Society as an Integral Self-Controlled System, by V. G. Afanas'yev, 13 pp.
RUSSIAN, bk, "Nauchnoye Upravleniye Obshchestvom",
1968, pp 33-51.
JPRS 45,598

Control in a Capitalist Society, by V. G. Afanas'yev, 44 pp.
RUSSIAN, bk, "Nauchnoye Upravleniye Obshchestvom",
1968, pp 52-97.
JPRS 45,598

Dirigible is Begun in Kiev, by O. A. Gusev. RUSSIAN, np, Rabochaya Gazeta, No 17, 21 Jan 1968, p 4, Cols 3-7.

Aleksandr Andreyevich Mislavskiy, by Yu. E. Sorkin, 7 pp.
RUSSIAN, per, Sovetskoye Zdravookhraneniye,
No 4, 1968, pp 63-66.
JPRS 45.956

Philosopher-Physician Julion Offroy Do La Mettrie, by M. N. Pototskiy, 10 pp. RUSSIAN, per, <u>Sovotskoye Zdravookhraneniye</u>, No 4, 1968, pp 67-71. JPRS 45,956

P. V. Kolarov -- Social Hygienist, Internationalist and Revolutionary, by K. Gargov, 5 pp. RUSSIAN, por, <u>Sovetskove Zdravookhraneniva</u>, No 4, 1968, pp 73-76.
JPRS 45,956

Scientific
Miscellaneous (Contd)

Anything Can Happen at Sea, by N. Burkov, 6 pp. RUSSIAN, per, Starehine Serghant, No 2, 1967, p 32. P50000 58
Dept of Navy NIC tr 2556

Freezing Weather Does Not Forgive Mistakes, by V. Lepikov, 3 pp. RUSSIAN, per, <u>Starshina Serghant</u>, No 2, 1967, p 33. P500062868 Dept of Navy NIC tr 2556

Timber Carriers of Medium Deadweight for the Soviet Merchant Fleet, by B. N. Zakharov, A. V. Shmelov.

RUSSIAN, per, <u>Sudostroenie</u>, No 8, 1966, p 3.

NLL Ref: 9022.065 (2542)

Filtration of Time-Quantized Periodic Signals, by E. V. Sergeyev, 7 pp. RUSSIAN, per, USSR. Gosudarstvennyv Geologicheskiy Komitet. Osobove Konstruktorskove Byuro. Geofizicheskaya Apparatura, No 26, 1965, pp 84-89. Pl00166768 FTD-HT-67-292

USSR Patent No 177539.
RUSSIAN, Patent No 177539.

★ACSI J-5114
FSTC-HT-23-238-68

Anschoic Room, by Juang-Jung Sun.
CHINESE, per, K'o Hsush Hua Pao, No 1, 1966, pp 4-5.
4FTD-HT-23-747-68C

Hydrogen - France Is Foremost. FRENCH, per, <u>Aviation Magazine</u>, Issue 480, Dec 1967, p 23. DIA LN 736-68

State and Goals of Scientific Research in Africa, by Anastasic Kongolo-Iblumba, 12 pp. FREHCH, per, Congo-Afrique, Fay 1968, pp 252-261. JPRS 46,074

Need for Research by Federation, States and Industry. GERMAN, rpt, Bundesbericht Forschung II 28.7.67, pp 68-73. NLL Ref: 9091.9F (Risley 1395)

Signa Phase, by M. Prud'houme GERMAH, per, <u>Hetallurgie</u>, Vol 99, 1967, pp 559-563. HLL Ref: 9022.4 (67/387) Scientific Miscellaneous (Contd)

VDI Standards, German Standards on Air Pollution Control.

GERMAN, rpt, VDI - Rightlinian, Nos 2095, 2111, 2066, 2262, 2264, 2112, 2101, 2104, 2102, 2303, 2291, 2094, 2301, 2282, 2440 and 2283, 193 pp. CFSTI TT 68-50469/1 thru 16

The Weaving Picture in the Manesse Manuscript, and its Alleged Subject, by Richard Stettiner. GERMAN, bk, Verlag von W. Spemann in Berlin und Stuttgart, 1911, 33 pp. *CFSTI TT 68-50350

Organization of the Academy of Sciences, 7 pp. HUNGARIAN, per, Magyar Tudomany, Apr 1968, pp 203-209.
JPRS 45,867

General Conditions of Research Contracts, 9 pp. HUNGARIAN, per, Magyar Tudomany, Apr 1968, pp 230-236.
JPRS 45,867

Academy Personnel Training and Suggestions, 10 pp.
HUNGARIAN, per, <u>Magyar Tudomany</u>, Apr 1968, pp 253-258.
JPRS 45.867

New Doctors and Candidates, 7 pp. HUNGARIAN, per, Magyar Tudomany, Apr 1968, pp 259-262. JPRS 45,867

Honeycomb Structures in the G. D. R., by Kerl Heinz Gahn.
HUNGARIAN, per, Muanyag es Gumi, No 1, 1968, pp 6-12.
ACSI J-5029
FSTC-HT-23-187-68

Measurement of Void in JPDR by H. Yusa JAPANESE, per, <u>Hitechi Hyoron</u>, Vol 48, No 11, 1966, pp 1-6. HLL Ref: 9091.9F (Risley 1390)

Selected Articles from Bridges and Ships, 8 pp. PORTUGUESE, per, <u>Fortos e Navios</u>, Vol X, No 102, Feb 1968, pp 412; 418; 420; 433.

Traffic Noise Investigation
SMEDIER Report on Research on the MA Road Between Stockholm and Sodertalje, 26.7.60 4.8.60.
MIL Ref: 5196 (1405)

Scientific <u>Miscellaneous</u> (Contd)

Scientific Improvements Needed for Industry, 13 pp.
VIETNAMESE, per, Tin Tue Host Dong Khoa Hoc.
No 2, Feb 1968, p 38.
JPRS 45817

INFORMATION RECEIVED DURING AUGUST

ON COVER-TO-COVER TRANSLATIONS

Acta Biochimica Polonica, Vol 16, No 1-4, 1969. *CFSTI TT 69-50010/1-4

Endokrynologia Polska, Vol 20, No 1-6, 1969. *CFSTI TT 69-50008/1-6

Acta Medica Iugoslavica, Vol. 21, No 1, 1967. CFSTI TT 67-58021/1

Fizika Tverdogo Tela, Vol 10, No 2, 1968. The American Institute of Physics Vol 10, No 2, August 1968

Acta Physiologica Polonica, Vol 20, No 1-6, 1969. *CFSTI TT 69-50009/1

Folia Morphologica, Vol 28, No 1-4, 1969. *CFSTI TT 69-50003/1-4.

Acta Poloniae Pharmaceutica, Vol 24, No 1-6, 1969. *CFSTI TT 69-50004/1-6

Geologiya Nefti i Gaza, Vol 7, No 7, 1963. PetroleumGeology

Archivum Immunologiae et Therapiae Experimentalia, Vol 16, No 2, 1968. CFSTI TT 68-50005/2

Geomagnetizm i Aeronomiya, Vol 8, No 1, 1968. The American Geophysical Union

Archivum Immunologiae et Therapiae Experimentalis, Vol 17, No 1-6. *CFSTI TT 69-50006/1-6

Izvestiya Akademie Nauk SSSR, Atmosfery i Okeanologicheskiy, Vol 3, No 11, 1967. The American Geophysical Union

Biokhimiya, Vol 32, No 6, Part 1, Nov-Dec 1967.

Izvestiya Akademie Nauk SSSR, Fizika Zemli, No 11, 1967. The American Geophysical Union

Doklady Akademii Nauk SSSr Biological, Vol 177, No 1-6, Nov-Dec 1967.

Izvestiya Akademii Nauk SSSR Seriya Fizicheskaya, Vol 31, No 7, 1967. Columbia Technical Translations

Doklady Akademii Nauk SSSR, Vol 178, No 1-3, Jan 1968. The American Institute of Physics Vol 13, No 1, July 1968

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol 31, No 8, 1967. Columbia Technical Translations

Elektrokhimiya, Vol 4, No 1, 1968.

Investiya VUZ Redictekhnika, Vol 9, No 5, Sept-Oct 1966. The Faraday Press, Inc.

Rhektrosvyss, Pert 1, Vol 22, No 2, 1968.

Kibernetika, Vol 2, No 4, July-August 1966. The Mareday Press, Inc.

Kolloidnyi Zhurnel, Vol 29, No 4. July-August 1967. Rudarsko - Metalurski Zbornik, No 3/4, 1967. CBSTI TT 67-58017/3-4

Kristallografiya, Vol 13, No 1, Jan-Peb 1968. The American Institute of Physics Vol 13, No 1, July-August 1968.

Tekhnika i Vooruzheniye, No 2, 1968. ACSI J-4947

Lijecnicki Vjesnik, Vol 89, No 10, 1967. CFSTI TT 67-58020/10

Teoriya Veroyatnostei i ee Primeneniya, Vol 12, The Society for Industrial and Applied Mathematics

Lijecnicki Vjesnik, Vol 89, No 11, 1967. CFSTI TT 67-58020-11

Teoriya Veroyatnostei i ee primeneniya, Vol 12, No 2, 1967. The Society For Industrial and Applied Mathematics

Medycyna Doswiadczaina i Mikrobiologia, Vol 21, No 1-4, 1969. *CFSTI TT 69-50005/1-4

Theoriya Veroyatnostei i ee Primeneniya, Vol 12, No 3, 1967. The Society For Industrial and Applied Mathematics

Metallovedenie i Termicheskaya Obrabtoka Metallov, No 11-12, Nov-Dec 1967.

Tsvetnye Metally, Vol 40, No 2, 1967. Primary Sources Vol 8, No 2, 1967

Optika i Spektroskopiya, Vol 24, No 3, 1968. Optical Society of America, Inc.

Tyl i Snabzheniye Sovetskikh Vooruzhennykh Sil, No 2, 1968. ACSI J-4945

Polski Archivem Medycyny Wewnetrznej, Vol 8, No 1-6, 1969. *CFSTI TT-69-50007/1-6

Uspekhi Fizicheskikh Nauk, Vol 92, July-August 1967. The American Institute of Physics Vol 10, No 4, Jan-Feb 1968.

Polski Przeglad Radiologii Medycyny Nuklearnej, Vol 33, No 1-6, 1969. *CFSTI TT 69-50002/1-6

Uspekhi Fizicheskikh Nauk, Vol 93, No 1-2, March-April 1968. The American Institute of Physics Vol 10, No 5. March-April 1968

Przeglad Epidemiologicsmy, Vol 23, No 1-4, 1969. *CFSTI TN-69-50001/1-4

Vestnik Protivovosdushnoy Oborony, No 12, 1967 ACBI J-4131

Radiokhimiya, Vol 9, No 6, Nov-Dec 1967. Consultants Bureau

Voyenno Mediteinekiy Zburnel, No 6, 1968. *ACBI J-5198

Andiotekhnika, Part 2, Vol 23, No 2, 1968.

Zavodskaya Laboratoriya, Vol 33, No 12, 1967.

Vol 53, No 5, 1968.
The American Institute of Physics Vol 26, No 5, 1968

Zhurnal Eksperimental'noi i Recreticheskoi Piziki, Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Piziki, No 5, September-October 1965. The Faraday Press, Inc.

Zhurnal Obshchei Khimii, Vol 37, No 1, 1967.

Zhurnal Tekhnicheskoi Fiziki, Vol 38, No 1, 1968. The American Institute of Physics Vol 13, No 1, July 1968

Zhurnal Obshchei Khimii, Vol. 37, No 2, 1967.

Zhurnal Tekhnicheskoi Fiziki, Vol 38, No 2, 1968. The American Institute of Physics Vol 13, No 2, August 1968

Zhurnal Obshchei Khimii, Vol 37, No 3, 1967.

Zhurnal Obshchei Khimii, Vol 37, No 4, 1967.

Zhurnal Obshchei Khimii, Vol 37, No 5, 1967. CB.

Zhurnal Obshchei Khimii, Vol 37, No 6, 1967.

Zhurnal Obshchei Khimii, Vol 37, No 7, 1967.

Zhurnel Obshchei Khimii, Vol 37, No 8, 1967.

Zhurnal Obshchei Khimii, Vol 37, No 9, 1967.

Zhurnal Obshchei Khimii, Vol 37, No 10, 1967.

Zhurnal Obshohei Khimii, Vol 37, No 11, 1967.

Zhurnal Prikladnoi Khimii, Vol 40, No 11, 1967.

ACTA NEDICA RUDOSLAVICA Vol 21, No 1, 1967

B. Beleslin, D. Beleslin, S. Bogdanović and M. Rakić:	£
The Effect of Codeine on the Peristaltic Reflex of the Isolated Guinea-Pig Ileum	5
B. Beleslin and D. Beleslin: On the Mechanism of the Hypertensive Effect of Leptazol	3
M. Prejac and A. Bunarević: Xanthogranulomatous Changes of the Renal Pelvis and Aortic Adventitia. Clinico-Pathological Case Report	9
S. Harisijades, M. Arambašić, S. Biga and B. Harisijades:	
Further Studies of Changes in Chick Embryo Eyes After Inoculation of Tric Agents Into the Amniotic Cavity	9
V. Dolgova-Korubin: Anemia in Rats Treated by Methyl Cellulose	1
R. Mihailović: Serum Cholinesterase Activity in Castrated Rats	9
R. Mihailović: Serum Cholinesterase Activity During the Early Period Following Castration in Rats	7
J. Canković, O. Piletić, S. Popović, M. Japundžić, and B. Knežević: An Experimental and Histological Study of Induction of Heterotopic Bone in Guinea-Pigs	3
I. Ruszkowski and S. Kovačić: A Contribution to the Nomenclature and Classification of Congenital Dislocations of the Hip	3
J. Canković, O. Piletić, S. Popović, M. Japundžić, and B. Knežević: The Effect of Estrogen on the Development of Experimentally Induced Heterotopic Ossification	9
Available From CFSTI TT 67-58021/1	

ARCHIVUM DOMINOLOGIAE ET THERAPIAE EXPERIMENTALIA Vol 16, No 2, 1988

	Pag.
JAMES P. DUGUID: The Function of Bacterial Firmbriae	173
of the Donor Strain Shigella flexneri 1b	180
KATARZYNA CZERWINSKA: The Influence of the Genome of Recipient Shigelia on Ability of Recombination in Interspecies Crosses with Escherichia cell Hfr	196
JERZY BOROWSKI, DANUTA DZIERŻANOWSKA and MIROSŁAW BOBROWSKI: Mechanisms of Resistance of <i>Klebsiella</i> Strains to the Antibiotics of Penicillin and Cephalosporin	
Groups	209
HALINA MORDARSKA, ALICJA TKACZOWA, MARIA MATEJ and MARIAN MORDARSKI: Cell Lipids and Sensitivity of Bacteria to Antibiotics	219
EVA ALDOVA, JIRI SOUREK and KARLA LÁZNIČKOVÁ: On the Taxonomy of Escherichia coli Serotypes Causing Experimental Keratoconjunctivitis Shigellosa in Guinea	
Pigs	228
JIRI SEDLAK and VIERA KERTESZOVA: On the Taxonomy of the Genus Hajnia	243
Shigella flexneri O-Antigens. A Study of Smooth to Rough Mutation	252
JORUNN ERIKSEN: Comparison of the Capsular Polysaccharides Isolated from Klebsiella pneumoniae Type 1, 2 and 3	260
pneumoniae Type 1, 2 and 3	265
flexneri LARS OLAF KALLINGS, A. A. LINDBERG and L. SJÖBERG: Phage Typing of Shigella sonnei	280
HEDDA MILCH and SUSAN DEAK: Phage Sensitivity and Lysogenity of Klebslella	
Strains. KAZIMIERZ PIĄTKOWSKI and JAN CHOMICZEWSKI: Colicinogeny and Colicin Sensitivity	288
of Shigella flexneri and Shigella sonnei Strains	295
YOSHIO AOKI: Colicin Type, Blochemical Type and Drug-Resistance Pattern of Shigella sonnei Isolated in Japan and its Neighboring Countries	303
STANISLAW KOSSOWSKI: Problems of the Etiology, Pathogenesis and Clinical Diagnosis	
of Ozena	314
HANSJÜRGEN RAETTIG AND RAINER MAMSCH: Oral Vaccination against Shigellosis by Means of Heat Killed Bacteria	324
GHEORGHE ISTRATI, T. MEITERT and C. CIUPECO: Treatment of Dysentery Bacilli Carriers	
with a Live Nonpathogenic Antidysenteric Vaccine	333
STANISLAW KLONOWSKI: Investigations on Serologic Tests in Rhinoscleroma	338

Available From CFSTI TT 68-50005/2

PRINTED BY DRUKARNIA UNIWERSYTETU JAGIELLOREKIEGO, KRAKÓW

BIOCHEMISTRY

A translation of Biokhimiya

Volume 32, Number 6, Part 1

November-December, 1967

CONTENTS

Effect of n-Propylgaliate and Cysteine on the Quarternary Structure of D-Glyceraldehyde-	Engl.	/Russ
3-Phosphate Dehydrogenase from Rabbit Muscle-A. I. Agatova	915	1107
and B. I. Gorenshtein	922	1115
Intestinal Tract—M. P. Chernikov, G. V. Nikol'skaya, and E. Ya. Stan	927	1122
-L. D. Bergel'son, E. V. Dyatlovitskaya, and E. D. Krasovskii	932	1128
Nucleic Acid Content in Yeast Cells and Ploidy Determination—E. N. Sokurova		1134
L. F. Romanova		1145
M. A. Guberniev, and T. G. Shorosheva		1149
Chromatography—I. A. Shabanova	952	1155
-I. V. Rodionova and G. K. Shipintaina	958	1161
γ-Irradiated Lysozyme-V. I. Maksimov, V. I. Osipov, and E. D. Kaversneva Protein (Pepsin) Decarboxylation and Mass-Spectrometric Analysis of the Resultant CO ₂	964	1169
- L. S. Shkarenkova, L. M. Ginodman, L. V. Koslov, and V. N. Orekhovich Purification and Investigation of Some Properties of α -Glucosidase from Rabbit Muscle	969	1175
-N. F. Pisarenko	973	1181
I. P. Galich	977	1186

The Russian press date (podpisano k pechati) of this issue was 11/39/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available Prom Consultants Bureau

De all add ab add mit naul sash Fillokial BOO D L A Art rowsch N M Fin a self A N France A N Admigrave D S Korzhinskii F M Kreps S A Lebedev V W Menner A L Mints A L Alparin Filtur Director, Institute of Biochemistry Acodemy of Sciences of the USSR A V. Peive Ya. V. Peive G.A. Razuvaev M.A. Sadovskii L. I. Sedov (Associate Editor)

Soviet Physics DOKLADY

A Translation of the "Physics Sections" of the Proceedings of the Academy of Sciences of the USSR

(Russian Original Vol. 178, Nos. 1-3, January, 1968)

Vol. 13, No. 1, pp. 1-76			Jul	y, 1968
CONTENTS		PAGE	RUSS.	RUSS.
ASTRONOMY Neutrino Emission of Stellar Energy Taking Account of the Pauli Principle. V. S. Pinaev	(T)	1	2	317
FLUID MECHANICS Shock Waves of Ionized Gases in an Electromagnetic Field. A. A. Barmin and A. G. Kulikovskii. Theoretical Investigation of Unsteady Supersonic Flow around Blunt Bodies.	(T)	4	1	55
Yu. M. Lipnitskii	(T) (E)	10	1	59 63
HYDRAULICS Similarity of Flows in Natural Channels. K. V. Grishanin	(T/E)	13	1	65
MATHEMATICAL PHYSICS The Cauchy Problem for the Laplace Equation in the Theory of Electrochemical Metal Machining. A. L. Krylov	(T)	15	2	321
N. Kh. Ibragimov.	(T)	18	3	566
PHYSICS The Volt-Ampere Characteristic of a Semiconductor-Dielectric Heterojunction. £. I. Adirovich and L. A. Dubrovskii	(T)	21	1	68
L. N. Burenkova, and N. I. Revin	(E)	25	1	72
and K. G. Breslavets	(E)	27	1	74
of the Medium. G. V. Skrotskii and A. A. Izmest'ev	m	30	1	17
V. B. Braginskii	(T)	32	2	324
Available From The American Institute of Physics Vol 13, No 1, July 1968			(0	lontd)

DOKLADY AKADEMII NAUK SSSR Vol 178, No 1-3, Jan 1968

Vol 178, No 1-3, Jan 1968	PAGE		RUSS.
Surface fonization of the C ₄ H ₁₀ N Radical. É. Ya. Zandberg			
and U. Kh. Rasulev (E/T)	35	2	327
Existence of Two Independent Mechanisms of Barkhausen Jumps			
in Ferromagnets. V. M. Rudyak and Yu. N. Kharitonov (E)	38	2	331
Fresnel Diffraction of a Nonspherical Wave. V. S. Sukhorukikh (T/E)	40	2	334
Migration Polarization from the Motion of Ions along Dislocations.			
N. P. Bogoroditskii and Yu. M. Volokobinskii (T)	43	3	569
Triple Backscattering of Electrons. L. M. Boyarshinov (E)	47	3	573
Transient Growth of Crystals under Nonisothermal Conditions.			
V. S. Gerasimenko and B. Ya. Lyubov (T)	50	3	577
Stimulated Emission of Solutions of Cyanine Dyes. L. D. Derkacheva			
and A. I. Krymova (E)	53	3	581
Special Features of Diffuse Scattering. Ch. K. Mukhtarov (T)	56	3	583
TECHNICAL PHYSICS			
Recognition of Binary Phase Diagrams of Metallic Systems by Using			
Electronic Computers. E. M. Savitskii, Yu. V. Devingtal',			
and V. B. Gribulya (E)	59	1	79
Influence of Deviations from the Vegard Rule on Diffusion in a Solid			
Solution under Multilateral Pressure Conditions. D. E. Temkin (T)	61	1	82
Speed of Ultrasound and Compressibility of Molten Silica.			
V. V. Baidov and L. L. Kunin (E)	64	2	338
Phase Diagram of the Vanadium-Gallium System. N. P. Sazhin,			
N. S. Vorob'eva, Ya. N. Kunakov, and G. N. Ronami (E)	66	2	341
Effect of Programmed Loading on the Properties of 40KhN5S Steel.			
I. A. Gindin, R. I. Éntin, I. M. Neklyudov, Ya. V. Gurevich,			
and I. I. Bobonets	71	3	586
THEORY OF ELASTICITY			
Macroscopic Characteristics of Microinhomogeneous Solids.			
V. V. Bolotin and V. N. Moskalenko (T)	73	3	563

Available From The American Institute of Physics Vol 13, No 1, July 1968

DOKLADY BIOLOGICAL SCIENCES

A translation of selected sections of Doklady Akademii Nauk SSSR

Volume 177, Numbers 1-6

November-December, 1967

CONTENTS

Engl./Russ. CYTOLOGY Mathematical Analysis of Spatial Distribution of Cytochromoxidase Activity in Excited and Inhibited Nerve Cells-A. B. Kogan, S. L. Zaguskin, B. M. Vladimirskii, and L. D. Zaguskina Isolation of Nuclear Membranes from Cells of Living Tissues-I. V. Zbankii, Autoradiographic Investigation of RNA Synthesis in Circulating Neutrophils of Various Species 933 Preservation of Ultrastructures of the Cell after Freezing and Drying-Ya, Yu, Komissarchik 936 1457 **ECOLOGY** Variation in Resistance of Colorado Beetle (Leptinotarsa decembineata Say) to Cyanida in Period of Postembryonic Development-T. Tilavov 732 938 Magnitude of the Angular Displacement as a Characteristic of Anadromous Migration of 1462 **EMBRYOLOGY** Glycogen in the Placenta, Trunk Musculature, and Liver in the Karakul Sheep Fetus 483 Cytomorphological and Cytochemical Findings in Early Stages of Embryonic Development of Russian and Spiny Sturgeons and Their Reciprocal Hybrids-L. A. Chubareva 742 486 Hatching Dates of Misgurnus fossilis L. as Affected by Oxygen Conditions-N. V. Kotlyarevskaya 746 EXPERIMENTAL MORPHOLOGY Nucleic Acid Content of Myocardium in Diphtheria Polioning and after Stimulation of 246 Activating and Inhibitory Action of X-rays on Functional State of the Retina and Its Ability 728 Combined Culture of Lymph Nodes and Tumor Tissue in Diffusion Chambers 964 Loss of Regenerative Power by the Mammalian Myocardium in the Postnatal Period Character of Restoration of Myocardial Structure and Function in Diphtheritic Myocarditis Treated with Biogenic Preparation-L. V. Polezhaev, S. P. Kolchin, I. E. Sadokova, 1489 GENETICS Induced Parthenogenesis in Nicotiana takacum L.-V. A. Todus, K. R. Tavdumadse, 448 (Contd)

Available From Consultants Bureau

DOKLADY AKADEMII NAUK SSSR Vol 177, No 1-6, Nov-Dec 1967

(continued)

Er	ngl./Russ.
Genetic Activity of Catechins Extracted from Tea Plants-G. N. Vinkler, M. N. Zaprometov,	
and V. K. Shcherbakov	12 699
→V. K. Ravin	76 703
HISTOLOGY Heterogeneity among the Lymphocytes of Peripheral Blood-G. P. Gruzdev and E. N. Shcherbova	79 1460
IMMUNOLOGY	
In Vitro Immunological Response of Cultured Lymphoid Cells—B. V. Pinegin and B. S. Uteshev 78 Suppression of Viral and Chemical Carcinogenesis by Artificial Heterogenization	
-V. P. Gamburg	
Virus - V. P. Gamburg and V. V. Meunargiya	
Utilization of Heterotrophic Assimilation of Carbon Dioxide for the Study of the Bacteriostatic Properties of Fish Serum - V. R. Mikryakov, G. D. Goncharov,	00 1213
and V. I. Romanenko	1 1216
MICROBIOLOGY Negative Heat Effect in Microbial Cultures—L. M. Pozharitskaya and L. V. Kalakutskii	4 1208
PHYSIOLOGY	
Effect of Level of Background Activity on Conditioned-Reflex Responses of Neurons in Cortical Representation of the Unconditioned Stimulus—N. N. Vasil'evskii	
and V. V. Trubachev	
-M. N. Murav'ev and A. B. Tsypin	9 479
and V. S. Yakobson	
the Restitution Time of an Excitable Membrane—E. B. Tabekii and E. Ya. Raikhbaum 80 Compact Numerical Representation of the QRS-Complex of the Electrocardiogram	
-K. K. Valuzhis, I. O. Levitan, and D. A. Érlitskite	
Dynamics of Changes in Membrane Potential of Giant Neurons of Hirudo medicinalis in	0 170
Calcium-Free Solutions—G. N. Akoev and T. L. Krasnikova	
and E. Ya. Raikhbaum	8 970
Effect of Hydrocortisone on the Life Cycle of Spontaneous Mouse Lymphatic Leukemia Cells -S. A. Goncharova, L. P. Lipchina, and O. S. Frankfurt	1 974
Proteins of the Dog and Rabbit during the Development of Experimental Atherosclerosis and in the Period after Terminating the Induction of Pathology—Z. A. Sokolova	
and D. G. Grigor'yan	4 977
Spontaneous Manifestations of the Active Electric Field of the Dog Hypothalamus -A. A. Spasskii, N. E. Fedorenko, and P. S. Vakhnovan	8 981
Role of the Motor Analyser in Cortical Electrical Activity of Monleye after Extensive Receptor	- 607
Exclusion—E. Sh Airapet yants and V. I. Korolev	1 1936
Available From Consultants Bureau	(Contd)

CONTENTS

DOKLADY AKADEMII NAUK SSSR Vol 177, No 1-6, Nov-Dec 1967 (continued)

701 1/1, No 1-0, Not-200 1/0/	Engl.	/Russ.
Dynamics of Change in the Quantity of Sulfhydryl Groups in the Myocardium during the Cardiac Cycle-Yu, E. Babskaya, E. V. Bogdanova, and E. B. Babskii	825	1240
Amplitude and Frequency Modulation of the Active Electrical Field of the Frog Brain	000	1210
-A. A. Spasskii and N. E. Fedorenko	. 838	1243
Myocardium during Cardiac Hyperfunction—F. Z. Meeson and K. M. Karlyev	. 840	1493
-V. G. Samsonova	, 844	1497
VIROLOGY Effect of Cowpox Virus on Mitosis in Cultures of Pig Embryo Renal Cells, Line RES (Clone 1) -V. N. Blyumkin, L. A. Mel'nikova, I. A. Kozlova, V. M. Zhdanov, O. P. Peterson, and A. A. Khakimov	. 848	942
ZOOLOGY		
Larval Development of Polychaetes of the Family Sphaerodoridae and Some Consideration of Its Systematics—S. A. Mileikovskii	. 851	471
INDEX		
Author Index, Volumes 172-177, 1967	857	
Table of Contents, Volumes 172-177, 1967	861	
The Russian press dates (podpisano k pechati) of the first and last issues covered in this issue of the translation were, respectively, 10/28/1967 and 12/22/1967. Publication of the material translated in this issue therefore		

is known to have occurred not prior to the earlier of these dates, but must be assumed to have taken place at intervals starting reasonably soon after

this date and ending shortly after the later date.

Available From Consultants Bureau

SOVIET ELECTROCHEMISTRY

A translation of Élektrokhimiya

Volume 4, Number 1

January, 1968

CONTENTS

	Eng	gl./Russ.
Adsorption Isotherms for Molecules Occupying Two Elementary Centers on a Nonuniform Surface. I. Domain Nonuniformity—Yu. A. Chizmadzhev and V. S. Markin Mechanism for the Operation of a Hydrogen Electrode Based on a Nickel Skeleton Catalyst	1	3
-R. Kh. Burshtein, A. G. Pshenichnikov, F. Z. Sabirov, and V. N. Zhuravleva	9	13
-V. A. Shlyapnikov and T. S. Filippov		20
S. I. Zhdanov, and T. A. Kryukova	19	24
I. The Nature of Tungsten-Iron and Iron Amalgam—E. F. Speranskaya and D. B. Mambeeva Polarographic Investigation of the Kinetics of Electrode Processes with the Participation	27	33
of Complex Ions on a Stationary Mercury Film Electrode—A. G. Stromberg and L. N. Popova Kinetics of Reactions on the Amalgam Bismuth Electrode. II. Determination of the Kinetic Parameters by Nonlinear Programming—V. V. Gorodetskii, K. A. Mishenina, V. V. Losev.	33	39
A. N. Grimberg, and G. M. Ostrovskii		46
Electrochemical Reduction of Organic Hydroperoxides—É. S. Levin and A. V. Yamshchikov Potential Dependence of the Rate of an Electrochemical Process during Reduction of an Adsorbed	45	54
Organic Substance-G. A. Tedoradze and R. A. Arakelyan	52	62
BRIEF COMMUNICATIONS Effect of the Operating Temperature of a Partially Immersed Electrode on the Value of the Current during Ionization of Hydrogen and Oxygen-V. A. Shepelin, Ts. L. Zalkind,		
and V. I. Veselovskii	55	66
Oxidation of Oxalic Acid—A. G. Kornienko, L. A. Mirkind, and M. Ya Fioshin	58	69
and V. B. Margulis	62	73
V. B. Aleskovskii, and I. A. Kedrinskii	65	77
-V. N. Lebedeva and M. Ya. Popereka	67	79
Electrochemical Behavior of a Rhenium-Tungsten Alloy. I. On the Feasibility of Depositing a Rhenium-Tungsten Alloy from Aqueous Solutions—A. A. Nikitina, Z. M. Sominskaya,		
and A. T. Vagramyan	70	82
A. S. Belanovskii, and V. S. Zelova	73	86
		(Contd)

Available From Consultants Bureau

•

CONTENTS

ELEKTROKHIMIYA Vol 4, No 1, 1968 continued)

	Engl.	/Russ.
Effect of Depolarizer Dissociation on the Features of Current-Potential Measurements		
with Continuously Changing Potential-B. P. Nesterov and N. V. Korovin	, 76	89
Nature of Short-Range Interionic Forces-Yu. M. Kessler and L. G. Lozhkina	. 79	92
Double Layer Capacity Studies with Liquid Gallium-Antimony Alloys-R. A. Alekseeva,		
V. A. Kuznersov, and M. I. Talanova	, 82	95
Specific Energy of Installations with Fuel Cells-A. G. Pshenichnikov	. 85	98
Adsorption of Hydrogen and Oxygen on Silver Reduced by an Electrochemical Method		
-G. V. Zhutaeva and N. A. Shumilova	. 87	99
pH Dependence of Hydrogen Adsorption by a Rhodium Electrode in a Buffer Solution		
-Yu. M. Tyurin and A. M. Kossaya	, 90	103
Effect of an Ion-Exchange Electrolyte on the Surfaces of Platinum and Mercury		
-A. B. Khanin, N. A. Aladzhalova, and N. A. Fedotov	. 94	107
Comparison of the Properties of Compact and Disperse Platinum-Ruthenium Electrodes		
-V. S. Éntina and O. A. Petrii	, 97	111
LETTERS TO THE EDITOR		
Reduction of Halogen-Substituted Organic Compounds at a Gallium Electrode-L. A. Bagotskaya		
and D. K. Durmanov	. 101	115
Physical Significance of the High Values of Electron Transfer Coefficients during the		
Electrochemical Reduction of N-Benzoyllactams-A. B. Embler, G. A. Tsagareli,		
and G. A. Tedoradze	, 103	116
REVIEWS		
J. Dvorak, J. Koryta, and V. Bohackova Electrochemistry (A. Regner, editor)		
-Reviewed by V. P. Gul'tyai	. 104	118

The Russian press date (podpisano k pechati) of this issue was 1/5/1968, Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available From Consultants Bureau

TELECOMMUNICATIONS and RADIO ENGINEERING

1968 NUMBER 2

	Page
Part 1 ELEKTROSYYAZ	
Vol 22	
Yu. S. Rasshcheplyayev and V. N. Fandiyenko: Amplifier Reliability Taking Parameter	
Spread into Account	1
Channel RF System due to Overloading of the Group Devices	7
V.V. Solov'yev: Discrete Information Transmission System with Information Feedback with a Memory, which Adapts to Noise According to Code Redundancy	10
V.A. Kazakov: Noise Immunity of a Communication System with Comparison	13 18
P. A. Yeskin and O. P. Kireyev: Standard Data Transmission Code	24
Ye. N. Khaytman: Certain Characteristics of a Mathematical Model of a Real Complex of Interference in the SW Band	29
V. G. Buryak: Improvement of a Method of Amplitude Limiting Telephone Signals	33
L. T. Kim: Method of "On Itself" Checking of Terminal Stations of Two-Terminal Two-Conductor RF Multiplexing Systems	38
INFORMATION: First Conference on Space Communications	42
Yu Tamm and B. S. Danilov: Method of Double Relative Phase-Shift Keying with Partial	43
Sideband Suppression	46 46
BRIEF COMMUNICATIONS	
B. P. Kalinichev: Amplitude Distribution of Atmospheric Interference	52
Coefficient of a Type K Delay Line	54
E.S. Kazimirovskiy, I.B. Kontorovich and V.D. Kokourov: Motion of Ionization Non- uniformities Causing Short-Wave Fading	57
In Our Forthcoming Issues	58
Part 2	
RADIOTERINIKA Vol 23	
G. Ya. Lyakhovetskiy and M.S. Chuyev: Curtailed Representation of Signals	59
A. M. Mishin: Phase-Frequency Distortions of a Varying-Frequency Signal Transmitted by	
Tandem Connected-Nonlinear and Broadband Linear Systems	64 70
V. D. Kuznetsov and V. K. Paramonov: Radiation-Pattern Distortions of a Phased	
Antenna Array	75
Antenna Arrays with Ellipitically Polarised Radiators	80
Ye. A. Bespalova and V. S. Etkin: Graphical Design of a Modulator-Demodulator Amplifier	84
with a Tunnel Diode Oscillator	8
· · · · · · · · · · · · · · · · · · ·	

Part 2 RADIOTEKHNIKA Vol 23

	Page
M.A. Rakov: Frequency Converters with Controlled Conversion Ratio	93
L.I. Khromov and V.I. Resin: Corruption of a Video Signal by Noise in Television	98
A.A. Volodin: Electronic Musical Instruments	102
V.P. Lyannoy and B.K. Gostkin: Logarithmic Functional Converters	· 07
V.I. Sementsov: Calculation of the Inductance of Planar Microcoils of Arbitrary Shape	
with Multilayer Ferromagnetic Cores	112
I.M. Sorkin: Frequency Modulator with Correcting Circuit	116
G.A. Malolepshiy: Energy Spectrum of a Phase-Modulated Signal for a Discrete Multi-	
level Random Modulating Function	120
R.M. Turkel'taub: Some Problems in the Analysis of Random Processes in Radio	
Circuits	127
BRIEF COMMUNICATIONS	
A.G. Orlov: Calculation of the Noise Temperature of Nonreciprocal Multiports	131
Yu.N. Grishayev: Effect of Noise on an Oscillator with Delayed Feedback	133
M.G. Antonenko: Temperature Conditions in Manufacturing and Operating High-Power	
Ferrite Devices	135
G.V. Voyshvillo: Design of Transistor Stages for Amplifying Sinusoidal Signals with	
Low-Frequency Correction	138
Book Review	143
Available From The T	

Available From The Institute of Electrical and Electronics Engineers

EDITOR'S NOTE

With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivalents is given below.

Soviet Usage	American equivalen
Arch	cosh ⁻¹
Arcth	coth ⁻¹ (ctnh ⁻¹)
Arsh	sinh ⁻ⁱ
Arth	tanh ⁻¹
arccos	cos ⁻¹ (arc cos)
arcetg	cot-1 (arc cot)
arcsin	sin ⁻¹ (arc sin)
arctg	tan-1 (arc tan)
ch	cosh
CO86C	CBC
ctg	cot (ctn)
eth	coth (cinh)
rot	curl
sch	sech
ah	einh
tg	tan
th	tanh

GEOLOGIYA NEFTI I GAZA Vol 7, No 7, 1963

1.	Oil and gas resources of Siberianreal base for
	creating a large oil-gas-producing base for the county.
,	G. V. Bagiryan et al
2.	Omsk regions.
	N. P. Zapivalov and K. A. Shpil'man p. 356
3.	
Э.	Gas prospects of the south part of the Igrim- Shukhtungort zone of uplifts.
4	V. S. Safonov p. 360
4.	Geologic-economic indexes of exploration operations
	for oil and gas in the West Siberian Lowland.
_	A. S. Arkhipchenko et al p. 363
5.	
,	Yu. P. Mironchev p. 367
6.	
	Far East.
-	N. T. Kurenkov p. 372
7.	• • • • • • • • • • • • • • • • • • • •
	predicting oil and gas productivity.
^	V. F. Nikonov
8.	
	Markovo field.
^	I. Ye. Drabkina et al p. 380
9.	
	Devonian and Lower Cretaceous in the Saratov-Volgo-
	g. d region on the Volga.
_	M. M. Grachevskiy et al p. 386
0.	
	southeastern Aral area.
	V. A. Zagoruyko p. 391
1.	Geologic results of gravimetric investigations in the northwestern Cis-Caucasus.
	M. R. Pustil'nikov et al
٤.	Net of hydrogeologic observations wells in the USSR.
	G. P. Yakobson p. 402

Available From Petroleum Geology

Translator and Publisher Dr. James W. Clarke

Technical Edito.
Grace Carrington

Editorial Assistant Antoinette B. Clarke

Published monthly \$25.00 a year (12 issues)

Published on a non-profit basis in the interest of geological science

GEOMAGNETIZM I AERONOMIYA Vol 8, No 1, 1968

	Page	Page
A. l. Lebedinskiy, V. G. Boldyrev, V. I. Tulupov, G. N. Barkova, and T. A. Lelyakina: Meteorological		
Interpretation of the Spectra of Outgoing Radiation Recorded on Cosmos Satellites	1	3
the Spectral Intensity of Terrestrial Infrared Radiation into Space	6	9
Geomagnetic Trap	11	15
V. T. Sarychev and B. V. Troitskiy: Characteristics of Proton Motion in the Geomagnetic Trap	16	20
K. G. Ivanov: Oblique incidence of Streams on the Magnetosphere	19	24
A. N. Charakhch'yan and T. N. Charakhch'yan: Socular Modulation of Galactic Cosmic Rays in interplanetary	23	29
Space G. V. Starkov: Auroral Heights in the Polar Cap	28	36
V. M. Driatskiy: Diurnal Pattern of Auroral Absorption in the Auroral Zone	33	42
I. S. Vsckhsvyatskaya: Computation of the Correlation Coefficient of the Envelope and the Width of the Spectrum of a Signal Reflected from the Ignosphere	39	50
T. M. Krupitskaya and Ch. L. Khodzha-Akhmedov: Electron Density in the Lower lonesphere in Periods of	-	57
Auroral Absorption E. G. Guseva, V. V. Kirillov, and S. T. Rybachek: Waveguide Propagation of VLF Waves. Comparison of	45	
Spherical and Plano Models	49	62
B. N. Gershman, G. I. Grigor'yev, and Yu. A. Ignat'yev: Contribution to the Theory of the Sporadic E-Layer, N. P. Mar'in: Scattering of Rays of Electromagnetic Waves by an Artificial Ionized Spherical Cloud	57 62	72 78
Ya. I. Likhter, Ya. P. Sobolev, and D. S. Fligel': Amplitude Spectra of Whistlers in the Frequency Range	-	
1 - 10 kHz	70 74	88 93
R. S. Steblova: Spectral Method of Estimating the Temperature Atmospheric Ozone I. A. Zhulin: Instantaneous Energy Characteristics and Transition to Time-Integral Estimates of the Energy		
of Geomagnetic Storms	80	102
J. C. Cain, R. A. Langel, and S. J. Hendricks: Magnetic Chart of the Brazilian Anomaly — A Verification N. V. Mikerina: Planetary Picture of the Distribution of the Rate of Change of the Sq Variation of the	84	107
Geomagnetic Field	68	112
G. Dodon: Diurnal Geomagnetic Field Variations According to the Data of Ulan Bator Observatory Fam Van-Chi, B. M. Yanovskiy, A. A. Kovtun, C. M. Raspopov, V. A. Troitskaya, and R. Schlich: lavesti-	91	116
gation of Type Pc3 Geomagnetic Pulsations at Magnetically-Conjugate Points	94	120
V. P. Golovkov and A. N. Pushkov: Sensitive Method of Measuring Magnetostriction in Rocks in a Broad Temperature Range	98	125
A. P. Shlyakhtina, L. A. Privalova, and T. Ye. Medvedeva: Map of the Geomagnetic Field Intensity T for the 1965 Epoch	101	128
L. G. Das'yanenko and Ye. N. Roze: Method of Determining the Secular Variation of the Magnetic Field in the Oceans	108	137
Ya. L. Blokh, A. B. Dmitriyev, Ye. A. Yeroshenko, and V. Kh. Leonov: Results of a Study of Overfilled		
S1SG Counters Designed to Operate in the Proportional Region	113	143
Measuring the Absolute Intensity of Cosmic Rays	116	146
Processing Magnetograms	120	151
BRIEF COMMUNICATIONS L. L. Van'yan and M. B. Gokhberg: Some Emission Characteristics of Three-Dimensional Hydromagnetic		
Waves	124	157
L. L. Van'yan. V. l. Dmitriyev, and B. N. Belen'kaya: Propagation of Geomagnetic Disterbances in an		
Unevenly Magnetized Cold Plasma	126	150
K. G. Ivanov and M. A. Livshits: Velocities of Small-Scale Inhomogeneities in the Interplanetary Medium N. P. Chirkov, V. A. Filippov, and G. V. Shafer: Secular Variations of Cosmic-Ray Intensity	128 130	162 163
L. I. Dorman. O. G. Rogava, and L. Kh. Shatashvill: Planetary Distribution of the Barometric Coefficients	190	100
of the Neutron Component of Cosmic Rays during the IQSY	132	166
V. M. Mishin: Electric Currents Flowing Along Geomagnetic Lines of Force in the Magnetosphere	134	168
A. F. Kovalevskiy and P. M. Nagorskiy: Ionization Produced by a Satellite in the Upper Atmosphere	137	171
L. M. Yerukhimov, Yu. S. Korobkov, O. L. Maksimenko, E. Ye. Mityakova, N. A. Mityakov, V. O. Rapoport, V. N. Uraydov, and V. A. Cherepovetskiy: Measurement of the Latitudinal Patters of Scintillations of		
Satellite Signals	138	172
M. Ya. Marov: Some Characteristics of the Thermosphere in 1964-1965	140	174
V. I. Drobabev: Geomagnetic Control of Vertical Ionization Drift in the F Region of the Ionosphere	142	176
N. N. Klimov and Yu. F. Soloviyev: Allowance for the Drift of Molecular lone in the Determination of the	143	177
Kinetic Parameters of ionization-Recombination Processes at the P _T -Layer Maximum	144	178
M. B. Vinogradova, K. M. Vasti'yev, and V. L. Bakanov: Direction said Dimensions of Vertically Moving	•••	•••
	146	181
loaized Formations V. M. Shashun'kinz: lonospheric Effect of the Sudden Commencement of a Magnetic Shrm in Years of Magnetic Shrm and Minimum Solar Activity	140	194
Maximum and Minimum Solar Activity P. V. Schepettory and A. L. Kalisher; Some Correlations of the Interval of Polastions of Decreasing Provided to Polastica 19 1846		
Period on Pobruary 12, 1964	161	187
Mamatla Barras	183	100
G. Dodon: Rapid Variations of the Geometratic Field According to the Data of Ulan Rater Chestwater	186	101
V. N. Pogrebney: Cyclic Changes in & Variations	107	199
G. Dodon: Rapid Variations of the Geomognetic Field According to the Data of Ulan Bater Choervatory. V. N. Pegrobney: Cyclic Changes in & Variations G. Dodon: Disrael Pattern of the Frequency of Aspearance of Particular K Indexes at Ulan Bater Choervatory E. F. Kropachov and V. L. Pochkarov: Refinement by the Reveation Method of the Coefficients of Sphorical	100	194
E. P. Kropachev and V. I. Pochtarev: Refinement by the Noration Method of the Coefficients of Spherical		

Available From American Geophysical Union

IZVESTIYA AKADEMIE NAUK SSSR, ATMOSFERY I OKEANOLOGICHESKIY Vol 3, No 11, 1967

	Page		
	English	Russian	
ANONYMOUS, Fifty Years of Atmospheric and Oceanic Physics in the U.S.S.R V. SHULEIKIN, Soviet Research on the Theory of Wind-Driven Waves,	667	1131-1136	
(For the fiftieth anniversary of the Soviet State)	671	1137-1157	
S. S. VOÎT, A Survey of Soviet Studies on Tsunami Theory	682	1158-1165	
Forecast based on the Complete Equations for a Restricted Area	687	1166-1178	
Stationary Model of Slope Winds V. F. ZHVALEV, K. YA. KONDRAT'EV, AND N. E. TER-MARKARYANTS, The Use of Infrared Photographs of the Earth to Trace the Dynamics of	694	1179-1186	
Ocean Currents and to Identify Jet Streams and Noctilucent Clouds S. A. KITAÏGORODSKIÏ AND YU. Z. MIROPOL'SKIÏ, The Theory of Turbulent	699	1187-1195	
Exchange in the Upper Boundary Layer of the Ocean	704	1196-1209	
Surface Layer	711	1210-1216	
Wind-Driven Current on the Spectrum of the Tangential Wind Force N. N. ABRASHINA, Long Waves Generated by Periodic Pressures in an	715	1217-1226	
Inhomogeneous Fluid of Variable Depth	720	1227-1234	
Short Communications			
M. A. KUZNETSOVA, Humidity Distribution in a Cloudy Atmosphere	724	1235-1238	
Chronicle			
A. M. YAGLOM, All-Union Symposium on Problems of Turbulence, including Geophysical Applications	728	1239-1240	

Available From The American Geophysical Union

IZVESTIYA AKADEMIE NAUK SSSR, FIZIKA ZEMLI No 11, 1967

	Page	
	English	Russian
YU. V. RIZNICHENKO, Soviet Geophysics on the Fiftieth Anniversary of the		
October Revolution	707	3-12
Paths for Development	712	13-18
V. V. BELOUSOV AND G. I. REISNER, Combined Geological, Geophysical,		
and Geochemical Studies of the Earth's Crust and Upper Mantle	716	19-27
E. F. SAVARENSKII, The Results and Objectives of Soviet Seismology (1917-1967)	721	28-40
E. S. BORISEVICH, D. P. KIRNOS, AND D. A. KHARIN, The Development		
of Seismic Observations and Apparatus in the USSR	728	41-53
B. M. YANOVSKII, Development of Work on Geomagnetism in the USSR During the Years of Soviet Power	735	54-89
V. V. FEDYNSKII, Exploration Geophysics in the USSR During the Soviet	15	31-07
Period (1917-1967)	756	90-112
N. N. PUZYREV, The Development of Seismic Methods of Exploration in	768	113-121
the USSR	190	113-121
Gravitational Field of the Earth	773	122-125

Available From The American Geophysical Union

English Edition Published June 1968

IZVESTIYA AKALEMII NAUK SSSR SERTYA FIZICHESKAYA Vol 31, No 7, 1967

Page Orig. Trans.

Transactions of the Fifth All-Union Conference on Ferroelectricity and the Physics of Inorganic Dielectrics

Contribution to the theory of ferroelectrically ordered crystals -		
V.A. Popov	1038	1055
Vibrational spectrum of ferroelectric KH2PO4 - M.S.Shur	1042	1059
Dependence of the dielectric constant of some crystalline dielectrics		
on the polarizability of the ions - S.N.Koikov & M.N.Rozova	1047	1064
Contribution to the theory of heat conductivity in ferroelectric		
materials with a smeared out phase transition - B. N. Rolov &		
O.V.Dumbrais	1051	1068
Dynamic theory of pyroelectric vibrators - V.Kh.Kozlovskii	1054	1071
On the field dependence of the domain wall energy near the Curis	1002	1011
	3060	1077
point - L. P. Kholodenko	1060	1077
Some regularities of the Mössbauer effect in ferroelectric materials		
with a smeared out phase transition - O.V.Dumbrais & B.N.Rolov	1065	1082
Structure and properties of some new ferroelectric materials with the		
perovskite structure - Yu.N. Venevtsev, A.G. Kapyshev, A.S. Viskov,		
L.I.Shvorneva, V.M.Lebedev, V.M.Petrov & G.S.Zhdanov	1068	1086
Investigation of new lead- and bismuth-containing substances with the		
pyrochlore structure - L.G. Nikiforov, V.M. Petrov &		
Yu.N.Venevtsev	1074	1092
Ferro- and antiferroelectric properties of compounds in the		
$Pb(Nb_{0.5}^{5+}B_{0.5}^{3+})0_3$ series - M.F.Kupriyanov & E.G.Fesenko	1078	1096
Some aspects of the crystal chemistry of KH2PO4 type crystals -		
I.S.Rez, V.I.Pakhomov, G.B.Sil'nitskaya & P.M.Fedorov	1082	1099
Ferroelectric lead-containing perovskites with defects in the anionic		
part of the lattice - M.F.Kupriyanov & E.G.Fesenko		1104
Micro-electron-diffraction studies of the atomic structure of BaTiO3,		
Pb(Feo.5Nbo.5)03 and Ba2Cuw06 - G.L.Platonov, Yu.Ya.		
Tomashpol'skii, Yu.N. Venevtsev & G.S. Zhdanov	1090	1108
X-ray diffraction study of the cation distribution in the structure		
of ferroelectrics of the (A'A") ₆ (B'B") ₁₀ 0 ₃₀ type - Ya.Ya.Kurchan	1094	1112
Investigation of the ferroelectric transition in an NaNO ₂ crystal by	2002	
observation of the Raman spectrum - R.V.Chisler & M.S.Shur	1098	1116
Vibrational spectra of crystals with the perovskite structure - A.I.	1000	
· · · · · · · · · · · · · · · · · · ·	1104	1199
Stekhanov & A.A.Karamyan The isotope effect and proton magnetic resonance in cesium hydro-	1104	1166
selenite - G.V.Gavrilova-Podol'skaya, M.L.Afanas'ev, A.L.Yudin	1100	1100
& A.G.Lundin	1108	1126
Investigation of the Mössbauer effect in some ferroelectric-ferro-		
magnetic and ferroelectric materials - M.V. Plotnikova, A.S. Visko		
K. P. Mitrofanov, V.S. Shpinel' & Yu. N. Venevtsev	1112	1129
The Mössbauer effect in tourmaline and BaTio.75Sno.2503 solid		
solution - I.S.Zheludev & V.F.Belov	1117	1134
Width and shape of the EPR line in barium titanate in the region		
of the phase transition - E.V. Bursian & V.V.Shapkin	1120	1137
·	((contd)
	•	

IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA Vol 31, No 7, 1967

The spontaneous electro-optical effect in barium titanate and lead		
titanate single crystals in the framework of the point dipole		
model - A.S.Sonin & L.B.Meisner	1122	1139
Phenomenological description of the electro-optical and elasto-optical	Ļ	
properties of ferroelectric materials - A.S.Sonin, V.E.Perfilova		
& A.S. Vasilevskaya	1125	1142
Behavior of the coefficients of the linear and quadratic electro-		
optical effects incident to ferroelectric phase transitions and		
	1129	1146
morphic effects - A.T.Anistratov & K.S.Aleksandrov	1120	1110
Electro-optical and clasto-optical properties of triglycine sulfate -	1132	1149
A.S. Vasilevskaya, V.E. Perfilova & A.S. Sonin	1134	1170
The quadratic electro-optical effect in KDP group crystals -		1164
V.E.Perfilova & A.S.Sonin	1136	1154
The spontaneous electro-optical effect in ADP and KDP crystals -		
O.G.Vlokh & L.F.Lutsiv-Shumskii	1139	1157
The longitudinal electro-optical effect in ADP and KDP crystals in		
the near ultraviolet and infrared regions - O.G. Vlokh &		
L.F.Lutsvi-Shumskii	1143	1162
The spontaneous electro-optical effect in barium titanate single		
crystals - A.S.Sonin & L.G.Lomova	1145	1164
Effect of gamma irradiation on the electro-optical properties of		
ferro actric crystals - N.R. Ivanov & L.A. Shuvalov	1148	1167
Investigation of the electro-optical properties of PbMg1/3Nb2/303 -		
A.A.Berezhnoi	1154	1173
•	1104	11.0
Intrinsic absorption of ferroelectric crystals at first and second	1166	1175
order phase transitions - K.A. Verkhovskaya & V.M. Fridkin	1156	111.9
Some optical properties of lithium niobate single crystals -		
A.S. Vasilevskaya, A.S. Sonin, I.S. Rez & T.A. Plotinskaya	1159	1178
Investigation of some of the optical characteristics of ferroelectric		
lithium niobate - L.M.Guseva, V.P.Klyuev, I.S.Rez, S.A.Fedulov,		
A.P.Lyubimov & 7.I.Tatarov	1161	1181
Some ferroelectric and antiferroelectric materials with high Curie		
points - G.A. Smolenskii, N.N. Krainik, N.P. Khuchus, V.A. Isupov,		
V. V. Zhdanova, O. M. Mushtareev & A. Ya. Chorkashchenko	1164	1184
Physical properties of ferroelectric alums - M.P.Zaitseva, L.I.		
Zherebtsova, V.M.Kozhin, I.S.Vinogradova, A.I.Rostuntseva &		
V.P.Spirov	1168	1188
The Barkhausen effect as a tool for investigating ferroelectric		
crystals - V.M.Rudyak	1171	1192
Concerning the influence of a slowly varying electric field on the		~~~
phase transition in barium titanate - V.Z. Borodin & V.G.		
·	1175	1107
Kuznetsov		1191
Nonlinear properties of KDP crystals in strong fields - L.N. Kamysheva		
O.K.Zhukov, N.A.Burdanina & T.P.Krivitskaya	1160	1202
Dynamic dielectric properties of triglycine sulfate doped with Cr3+		
and Cu ²⁺ - I.S.Zheludev & TsrZh.Ludupov	1184	1207
Dielectric properties of barium titanate single crystals doped with		
tantalum - E.P.Guenok & A.Yu.Kudzin	1188	1210
Effect of replacement of the Ba2+ ions by Zn2+ ions on the polariza-		
tion switching processes in BaTiO3 single crystals - E.V.		
Sinyakov, E.P. Dudnik & N.Z. Frizyuk	1192	1215
	la	ontd)
Available From Columbia Technical Translations	, •	

IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA Vol 31, No 7, 1967

influence of impurities on polarization switching of barium titanate		
single crystals - A.Yu.Kudzin & L.K.Bunina	1196	1219
Electric properties of Rochelle salt under the influence of fields of		
two frequencies - E.S.Popov, S.L.Rapoport & A.V.Shil'nikov	1199	1222
On relaxation polarization of barium titanate single crystals doped		
with pentavalent cations - E.V.Sinyakov, E.F.Dudnik,		
M.L.Nodel' & A.E.Perminov	1202	1226
Investigation of the temperature dependences of the linear expansion		
coefficients of KDP and RDP crystals - L.A.Smolenko,		
E.V.Sidnenko & I.S.Zheludev	1205	1230
Investigation of the spontaneous polarization of barium titanate at		
hydrostatic pressures of up to 10 000 kg/cm ² - I.N. Polandov,		
V.P.Mylov & B.A.Strukov	1208	1233

Available From Columbia Technical Translations

Translated in 1968 by Columbia Technical Translations, 5 Vermont Avenue, White Plains, N.Y. 10606

IZVESTTYA AKADEMII NAUK SSSR, SERIYA FIZICHESKAYA Vol 31, No 8, 1967

Page Orig. Trans.

Transactions of the All-Union Conference on Cosmic Ray Physics (Alma Ata, October 1966)

Composition of the primary cosmic radiation - L.V.Kurnosova Investigation of the shape of the energy spectrum of the primary cosmic particles at energies from 10 ¹⁰ to 10 ¹⁴ eV with the earth satellites Proton 1 and Proton 2 - N.L.Grigorov, V.E.Nesterov, I.F.Rapoport, I.A.Savenko, G.A.Skuridin &	1214	1241
A. F. Ti tenkov	1222	1249
Energy spectrum of the primary protons at energies from 10 ¹⁰ to 10 ¹³ eV according to data recorded by Proton 1 and Proton 2 - N.L.Grigorov. V.E.Nesterov, I.D.Rapoport, I.A.Savenko,	1466	1439
G.A.Skuridin & A.F.Titenkov Study of the chemical composition of the primary cosmic rays in the moderate energy region with the earth satellites Proton 1 and Proton 2 - N.N.Volodichev, N.L.Grigorov, V.E.Nesterov,	1225	1252
I.D. Rapoport & I.A. Savenko	1229	1255
Investigation of the energy spectra of nuclei of different atomic numbers with the earth satellites Proton 1 and Proton 2 -		
N.N.Volodichev, N.L.Grigorov & I.A.Savenko Energy spectrum of the electrons in galactic cosmic rays -	1231	1258
V.I.Rubtsov & V.I.Zatsepin	1233	1260
Investigation of the composition of primary cosmic radiation - E.A.Bogomolov, V.K.Karakad'ko, N.D.Lubyanaya, V.A.Romanov, M.G.Totubalina & M.A.Yamshchikov	1237	1264
Concerning the very low energy region of the energy spectrum of primary cosmic rays beyond the solar system - I.V.Dorman &		
L, I, Dorman	1239	1266
Intensities of the primary and secondary components of the cosmic rays in circumterrestrial space - A. N. Charakhch'yan &	10.00	2074
T.N. Charakhch 'yan	1247	1274
Investigation of cosmic rays with the Kosmos 53 satellite - S.N. Vernov, E.V.Gorchakov, P.P.Ignat'ev & A.G.Nikolaev Ionization chamber studies of cosmic rays with the Kosmos 19 and	1250	1277
Kosmos 25 satellites - B.M.Kuzhevskii & Yu.G.Shafer	1252	1279
Eleven-year trend of the cosmic ray intensity beyond the Earth's magnetosphere - S.N.Vernov, A.E.Chudakov, P.V.Vakulov,		
Yu.I.Logachev, G.P.Lyubimov & M.V.Pereslegina	1255	1281
Cosmic ray variations in different regions of interplanetary space according to data recorded by the space probes Zond 3 and Venera 2 - S.N. Vernov, A.E. Chudakov, P.V. Vakulov, K.I. Logacher) .	
G.P.Lyubimov & N.V.Pereslegina	1259	1285
Changes in the energy spectrum of the galactic cosmic rays during t		
eleven-year solar activity cycle - Yu.I.Stoshkov & T.M.		
Charakhoh 'yan	1262	1287
	(Contd)
	•	

Available From Columbia Technical Translations

IZVESTIYA AKADEMII NAUK SSSR, SERIYA FIZICHESKAYA Vol 31, No 8, 1967

Modulation effects in the nuclear component of cosmic rays during a		
period of minimum solar activity - L.V. Kurnosova, L.A. Razorenov		
A.A.Suslov & M.I.Fradkin	1265	1291
Motion of cosmic particles in the magnetic fields in interplanetary		
space - A.Z.Dolginov & I.N.Toptygin	1269	1295
The nature of the eleven-year cosmic ray variations and character-	1000	1000
istics of the solar wind - I.V.Dorman & L.I.Dorman	1273	1298
The eleven-year cosmic ray variations and solar activity - R.B.	1279	1305
Salimaibarov	1217	1303
The twenty-seven day cosmic ray variations - V.A.Filippov, G.F. Krymskii & A.I.Kus'min	1281	1307
Sporadic cyclic variations of the cosmic ray intensity - G.A.	1001	1001
Bazilevskaya	1284	1310
Twenty-seven day cosmic ray intensity variations and the structure		
of the solar corpuscular streams - L.I.Dorman, A.A.Luzov &		
F.V. Khrus ts elevskaya	1287	1313
Neutrino astrophysics - G.E.Kocharov	1290	1316
Measurements of 1 to 5 MeV protons of solar origin during the flight	:4	
of the space probes Venera 2, Venera 3 and Zond 3 - S.N. Vernov		
A.E.Chudakov, P.V.Vakulov, Yu.I.Logachev, G.P.Lyubimov,		
A.G. Nikotaev & N.V. Pereslegina	1296	1322
Cases of production of heavy nuclei in solar cosmic rays - L.V.		
Kurnosova, L.A.Razorenov, A.A.Suslov, S.I.Syrovatskii &		
M.I. Fradkin	1300	1326
Production of fast particles under cosmic conditions - S.I.		
Syrovatskii	1303	1330
Small effects of flares on cosmic rays according to stratosphere		
measurements - B.M. Vladimirskii	1307	1334
Production of particles on the Sun during hot condensations and		
flares in different periods of solar activity - V.I.Ivanov,		
E.V.Kolomeets & Z.Makhmudov	1310	1337
Secular modulation of the cosmic ray intensity in interplanetary	1010	1340
space - A. N. Charakhch'yan & T. N. Charakhch'yan	1313	1340
Basic characteristics of Forbush decreases during a period of minimum solar activity - G.V.Shafer, A.I.Kuz'min, G.F.Krymskii		
& P.A.Krivoshapkin	1910	1346
Investigation of the neutron component of the cosmic rays at	-017	2010
atmospheric depths from 260 to 315 millibars - L.V. Granitskii,		
L.I.Dorman, S.G.Bortnik, G.A.Novikova & I.M.Raikhbaum	1322	1349
The anisotropy of cosmic rays and its change with the solar		
activity cycle - E.V.Kolomeets	1324	1351
Concerning the nature of the anisotropy of the cosmic rays in the		
solar system - L.I.Dorman	1333	1361
Investigation of the CR anisotropy from day to day during a period		
of minimum solar activity - E.V. Kolomeets, G.A. Sergeeva &		
R.A.Chumbalova		1369
Solar-diurnal variations and sudden changes in cosmic ray intensity		
M.V.Alaniya, L.I.Dorman & L.Kh.Shatashvili	1343	1372
Behavior of the diurnal variation during magnetic storms -		
A. E. Pankratov & A.A. Stepanyan	1346	1376 ntd)
	(00	,,, out)

Available From Columbia Technical Translations

IZVESTIYA AKADEMII NASK SER, SERIYA FIZICHESKAYA Vol 31, No 8, 1967

Solar activity dependence of the distribution with respect to the plane of the ecliptic of the power of the source of the		
solar-diurnal cosmic ray variations - L.I.Dorman & S.Fisher Annual modulation due to geometric factors of the diurnal cosmic	1349	1379
ray variations - L.I.Dorman & S.Fisher	1352	1382
Anomalous behavior of the diurnal cosmic ray variations near a solar activity minimum - K.K.Fedchenko	1355	1385
Concerning the sidereal-diurnal cosmic ray variations - L.I. Dorman, O.I.Inozemtseva, S.F.Ilgach & E.A.Mazaryuk	1357	1388
The sidereal-diurnal variations due to modulation of the cosmic rays - G.F.Krymskii, A.M.Altukhov, P.A.Krivoshapkin, A.I.		
Kuz'min & N.P.Chirkov Sidereal-diurnal cosmic ray variations - E.V.Kolomeets & A.N.	1360	1392
Nemolochnov Contribution to the identification of the true fluctuations of the	1362	1394
diurnal variation - G.F.Krymskii, A.I.Kur'min & A.M.Altukhov Annual cosmic ray variations and their relation to active regions on	1365	1397
the Sun - L.I.Dorman, A.A.Luzov & V.P.Mamrukova		1399
Variations of high energy cosmic rays - A.I.Kuz'min The use of matrices in studying the distribution of cosmic rays -	13/2	1403
G.F.Krymskii, A.M.Altukhov, P.A.Krivoshapkin, A.I.Kum [*] min & N.P.Chirkov	1381	1412
Position of the cosmic ray equator in the vicinity of the zero meridian between 1956 and 1963 - Yu.Dubinskii & I.Khaloupka Latitude distribution and coupling coefficients for the neutron and	1384	1415
total ionizing components of cosmic radiation - L.I.Dorman, V.A.Kovalenko & N.P.Milovidova	1387	1418
The east-west cosmic ray asymmetry effect according to crossed telescope measurements during 1965 - L.I.Dorman, V.A.Kovalenko		
& N.P.Milovidova Preliminary results of a study of the distribution of cosmic rays	-0	1421
in the eastern part of the USSR - L.V.Granitskii, R.T.Gushchirs A.E.Davydov, I.V.Dorman, L.I.Dorman, V.A.Kovalenko,	.	
R.Z.Mad'yarov, N.P.Milovidova & V.S.Khachikyan	1393	1424

Available From Columbia Technical Translations

Translated in 1968 by Columbia Technical Translations 5 Vermont Ave., White Plains, N.Y. 10606



Soviet Radio Engineering

The Faraday Press cover-to-cover translation of <u>Izvestiva VUZ, Radiotekhnika</u>

Contents

Volume 9, Number 5 · September-October 1966

		Page	English page
Editorial Board Izvestiya VUZ. Radiotekhnika	Autothermostabilization of Ferrites and Ferroelectric Devices. G. B. Bogdanov	583	417
• •	Approximate Calculation of the Distributed Parameters of a	000	44.1
a publication of the Higher Educational Institutes USSR	Flat Helical Delay Line. V. A. Lossovskii	591	422
V. V Oglevskii,	Artificial Lines. V. M. Nashatyr and V. A. Popova New Method for Measuring the Width of the Ferromagnetic Res-	599	428
Editor-in-Chief Ya. K. Trokhimenko, Associate Editor	onance Line of Ferrites. E. L. Kulikov and V. K. Il'in Effectiveness of Pulse Noise Suppression by the Nonlinear	610	436
Yu. T. Velichko N. F. Vollerner L. N. Kolesov	Feedback Method. V. D. Krasil'nikov	616	440
I. V. Lebedev Yu. S. Lezin E. I. Manaev	System of Coupled Resonators. V. I. Kanavets, V. G. Rassadin, and A. S. Roshal	622	444
M. S. Neiman A. V. Netushil K. S. Rzhevkin	ing System in the Automatic Search Mode, Yu. P. Grishin and V. I. Shlomin	630	450
V. P. Sigorakii A. P. Skibarko I. P. Stepanenko	Computing Transients in Thermistor Circuits. A. A. Bokrinskaya and V. D. Stashuk	638	456
V. P. Teranenko V. T. Frolkin V. I. Chaikovskii	Ultra-Low Subharmonic Quartz Oscillator with Pulse Excitation. A. F. Plonskii and Yu. K. Filipskii	646	462
Yu. Ya. Yurov	of a Nonlinear Capacitance, Yu. P. Rodionov		
Faraday Advisory Editors	and V. P. Tarasov	652	466
R. C. Gless The City University, London	Calculation of the Thermal Operation of Power Transistors in a Double-Ended Class B Amplifier, Yu. L. Neiman	656	469
B. R. Pemplin Bath University of Technology	Brief Communications Power Consumption by a Magnetized Ferrite Spheroid in a Rectangular Waveguide, A, V. Kislyakovskii and		
	V. S. Vuntesmeri	665	475
	Available From The Faraday Press, Inc.	(Cont	inued)

Single Issue: \$35

Annual Subscription: \$115

● 1968 by The Feredey Press, Inc.

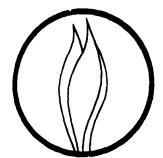
All rights reserved. This publication or parts thereof may not bu reproduced in any form without permission of the publisher.

The Faraday Press, Inc.

84 FIFTH AVENUE, NEW YORK, N.Y. 10011

IZVESTIYA VUZ RADIOTEKHNIKA Vol 9, No 5, September-October 1966 Calculation and Measurement of the Characteristic Impedance and Coupling Impedance of Waveguides with Periodic Structures, N. M. Chirkin and V. E. Lyamov The Use of a Low-Frequency RC-Oscillator to Measure Weak Constant Magnetic Fields, V. P. Chirkov 671 481 Nonlinear Video Signal Conversion in a Controlled Transmission Line with a Ferrite 673 483 Power Saturation and Efficiency of a Tube with a Combined Slow-Wave Structure. M. I. Poigina Input Impedance of a Quantum Amplifier Resonator, V. F. Kushnir and K. N. Shchelkunov 678 488 Theoretical Basis for the Exponential Law of Equipment Reliability in the Initial Period of Operation. Zh. B. Linkovskii 681 491 Electrostatic Potential Distribution in a Circular Four-Wire Helix. A. S. Bondarev Author's Abstract Some Possibilities of Figure Scanning. V. K. Vasil'ev and G. G. Vainshtein 496 Letter to the Editor

Available From The Faraday Press, Inc.



Cybernetics

The Faraday Press cover-to-cover translation of Kibernetika

Contents

Volume 2, Number 4-July-August 1966

		fluorita page	Southern Page
Editorial Board	Methods of Solution of Nonlinear Extremal Problems.		
Kibernetika	Yu. M. Ermol'ev	1	1
a publication of the	A. A. Letichevskii	18	15
Academy of Sciences UkrSSR	Coding the States of a Multicycle Device with Allowance for	10	19
V. M. Glushkov.	Circuit Components, L. V. Matsevityi and		
Editor-in-Chief	N. S. Chaika	25	20
V. S. Mikhalevich, Associate Editor	Memory Organization for List Processing, V. P. Gladun	33	26
N. S. Furs.	Input Language of a Universal Computer.		
Associate Editor	M. A. Osipova	38	30
N. P. Buslenko	An Example of Synthesis of a Second-Order Nonlinear		
A. A. Dorodniteyn A. P. Ershov	System, V. G. Boltyanskii and E. Ya. Roitenberg	52	42
Yu I. Zhuravlev	An Ergodicity Condition for Certain Queueing Systems.		
L. A. Kaluzhnin	L. G. Afanas'eva and A. V. Martynov	57	46
V. A. Kovalevskii V. S. Korolyuk	On Discrete Search Problems. S. S. Kislitsyn	64	52
O, S. Kulagina	Solution of a Bulk Servicing Problem by the Monte Carlo		
A. A. Letichevskii	Method, I, A. Luik	71	58
O. B. Lupanov A. A. Lyapunov	A Class of Redundant Arithmetic Codes, G. K. Kladov and		
A, I. Mai'tsev	A. Ya. Shpil'berg	78	64
N. N. Moiseev	Duplication of Files in a Data Processing System.	81	66
Yu. A. Oleinik-Ovod G. E. Pukhov	L. S. Lozinskii	88	71
I. V. Romanovskii	An Algorithm for the Separation of Graphic Symbols.	90	
S. L. Sobolev	M. M. Bushko-Zhuk and V. V. Kakurina	93	75
E. F. Skorokhod'ko	On the Properties of Linguistic Control Graphs.		
V. A. Statulyavichyus A. A. Stognii	E. N. Efimova	97	78
V. V. Shkurba	w. a., compared traffic traffi	••	
E. L. Yushchenko			

Faraday Advisory Editors

M. Levison
University of London
L. W. Neustadt
University of Southern
California

Available From The Faraday Press, Inc.

Single Issue: \$35

Annual Subscription: \$125

© 1988 by The Fereday Press, Inc.
All rights reserved. This publication or parts thereof may not be reproduced in any form without permission of the publisher.

The Faraday Press, Inc.

64 FIFTH AVENUE, NEW YORK, N. Y. 10011

COLLOID JOURNAL

of the USSR

A translation of Kolloidnyi Zhurnal

Volume 29, Number 4

July-August, 1967

CONTENTS

		13
ı	Engl./F	luss.
Anton Vladimirovich Dumanskii	341	459
Suspensions - L. A. Abduragimova, A. K. Miskarli, and S. B. Gasanova	343	460
Factors Determining Surface Tension — A. A. Abramzon	348	467
Porosity of Nickelous Hydroxide Precipitated in an Ultrasonic Field - N. Ya. Avdeev,	-	
F. I. Kukoz, L. A. Kukoz, V. V. Lyashenko, and N. N. Sidorov	353	474
Two-Phase Disperse Systems in Thermodynamic Equilibrium - Yu. M. Glazman	356	478
Influence of Certain Organic Solvents on the Membrane Potential of Dyed and Undyed		
Cellophane - N. A. Batunova, B. N. Mel'nikov, and P. V. Moryganov	358	481
Surface Activity and Stability of Styrene Emulsions in Aqueous Solutions of Polyvinyl Alco-		
hols. Influence of Polyvinyl Alcohols on Interfacial Tension at the Styrene - Water		
Interface - E. V. Gromov, L. Ya. Kremnev, E. I. Egorova, R. Kh. Barenbaum,		
A. A. Abramzon, L. F. Dokukina, and M. V. Ostrovskii.	360	484
Suspensions of Polypropylene Sulfochlorinated by the Radiation Method-R. V. Dzhagatspanyan,		
L. G. Khromenkov, and B. M. Korolev	364	489
Vapor Condensation in Conical Capillaries — B. V. Zheleznyi	367	493
Coagulation of SiO, by Electrolytes from Aqueous Potassium Silicate Solutions		
- V. I. Kazakova, A. V. Smirnova, and A. F. Koretskii.	370	497
Formation of Spherical Alumina and Aluminum Oxide Catalysts by the Hydrocarbon -		
Ammonia Process. Coagulational Structure Formation during the Forming Process		
- Ya. R. Katsobashvili, N. S. Kurkova, and N. A. Akchurina	374	503
Mechanism of the Influence of Surfactants on Disperse Structures in Road Bitumens		
- A. S. Kolbanovskaya, A. R. Davydova, and D. S. Shemonaeva	378	509
Experimental Study of Coprecipitation of Solid Aerosol Particles on the Fibers of a Model		
Filter - V. A. Kolganov and L. V. Radushkevich	384	518
Kinetics of Adsorption of Gelatin - Activated Colloidal Particles at a Mobile Hydrosol - Gas		
Interface - G. S. Krasnova, L. D. Skrylev, and S. G. Morkushin	387	522
Experimental Conductometric Investigations of Thinning of Free Films - P. M. Kruglyakov		
and P. R. Taube.	390	526
Influence of Plastic Deformation on the Character of the Pore Structure in Electrophoretic		
Denosits - n. N. Lazarev and I. S. Lavrov	395	533
Joint Solubility of Polymethacrylic Acid and Cellulose in Common Solvents - V. A. Landysheva,		
I. S. Egorova, and V. E. Loshkin.	399	538
Influence of the Surface State and Grain Size of Quartz Aggregate on Crystallization Hard-		
ening of Cement and on the Properties of the Hardened Cement in the Contact Zone		
- T. Yu. Lyubimova.	403	544
Stability of Methanol Suspensions of Aluminum Oxide - V. A. Malov, V. I. Baranova, and		
I, S. Lavrov	411	554
	((Contd
	•	

Available From Consultants Bureau

KOLLOIDNYI ZHURNAL Vol 29, No 4, July-August 1967

(centinued)

	Engl./	Russ.
Differentiation of Water in Clay Systems with High Moisture Contents — A. K. Miskarli and V. Ya. Zemlyanskaya	414	558
Yu. I. Tarasevich, V. M. Valitskaya, and V. E. Polyakov	419	565
at Water-Hydrocarbon Interfaces — G. N. Pozdnyshev and A. A. Petrov	422	569
- V. N. Pokrovskii	428	576
A. A. Spartakov, and A. A. Trusov	434	584
- O. G. Us'yarov, N. I. Gamayunov, and I. F. Efremov	439	591
and L. I. Édel'man	441	594
Measurement of Potential in a Moving Sol — P. D. Bhatnager	444	598
LETTERS TO THE EDITOR		
Heat of Hydration of Ion Exchanges - A.V. Dumanskii, E. F. Nekryach, N.V. Gorokhvatskaya,		
L. P. Avramchuk, and O. D. Kurilenko	448	602
Adsorption Titration of Latices — R. É. Neiman and A. P. Kirdeeva	450	604
Yu. V. Egorova, and E. I. Evko.	451	606

The Russian press date (podpisano k pechati) of this issue was 7/14/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available From Consultants Bureau

KRISTALLOGRAFIYA EDITORIAL BOARD N. V. Belov G. B. Bokn A. A. Chernov V. L. Indenbom A. I. Kitangorodskii Z. G. Pinsker I. Shafranovskii A. V. Shubinkov [Editor] Institute of Crystallography Academy of Sciences of the USSR, Moseon L. A. Shuvalov B. K. Vainshtein G. S. Zhdanov (Asso Inte Editor) I. S. Zheludev (Secretary)

Soviet Physics CRYSTALLOGRAPHY

A Translation of "Kristallografiya"

(Russian Original Vol. 13, No. 1, pp. 1-208, January-February, 1968)

Vol. 13, No. 1, pp. 1-164

July-August, 1968

(Contd)

(T/E)

CONTENTS			
•			RUSS.
. •		PAGE	PAGE
Mikhail Aleksandrovich Porai-Koshits (On His Fiftieth Birthday) Elastic Scattering of Slow Electrons by Isolated Atoms Undergoing Isotropic	(T)	1	3
Thermal Motion. V. F. Dvoryankin and A. Yu. Mityagin	(T)	3	5
and Yu. I. Sirotin	(T)	7	10
Nonequilibrium Structure of an Elementary Step. V. V. Voronkov Structure of Molecular Crystals. III, Potential-Function-Symmetry Method	(T)	13	19
for Asymmetric Congruently Equal Molecules. P. M. Zorkii	(T)	19	26
V. I. Nesterenko, and F. A. Mirishli	(E)	25	33
and L. M. Kefeli X-Ray Studies of Pepsin, I. Crystallization and Production of Isomorphous	(E)	28	38
Derivatives. V. M. Bakulina, V. V. Borisov, V. R. Melik-Adamyan, N. E. Shutskever, and N. S. Andreeva Crystal Structure of a New Tetragonal Phase in the Bi-O System.	(E)	33	44
A. A. Zav'yalova and R. M. Imamov	(E)	37	49
Structure of Anhydrous K _{0.22} NiO _{1.8} . P. N. Bityutskii and V. I. Khitrova An Electron Diffraction Study of the Structure of GeBi ₄ Te ₇ . K. A. Agaev,	(E)	40	53
A. G. Talybov, and S. A. Semiletov	(E)	44	59
fluoride and Its Dehydration Products. G. M. Zadneprevskii, Yu. V. Gagarinskii, and S. A. Polishchuk	(E)	48	63
Electron-Diffraction Study of Germanium Diiodide, A. S. Avilov and R. M. Imamov	(E)	52	68
Determination of the Structure of K2MoO2F4 Crystals by Electron Diffraction. G. Z. Pinsker and V. G. Kuznetsov	(E)	56	74
Nuclear Magnetic Resonance (NMR) Absorption Spectra of Zirconium and Yttrium Hydrides. E. F. Khodosov and R. A. Andrievskii	(E)	60	80

Available From The American Institute of Physics Vol 13, No 1, July-August 1968

A. S. Sonin, and T. A. Regul'skaya

Spontaneous Electrooptic Effect in TGS Single Crystals. L. G. Lomova,

KRISTALLOGRAFIYA Vol 13, No 1, Jan-Feb 1968

			RUSS.
		PAGE	PAGE
Effects of Impurities on the UHF Differential Dielectric Constant of a TGS	<u></u> .		
Single Crystal. I. S. Zheludev and Ts. Zh. Ludupov	(E) ⁺;	71	95
Effects of Magnetic Anisotropy on the Resonance Field in a Cubic Single	(T)		100
Crystal. A. A. Manuilova, T. V. Kudryavtseva, and L. P. Bogdanova	(T)	74	100
Influence of Loading Conditions on Dislocation Distribution and Strengthening in Lithium Fluoride Crystals. I. A. Cindin, I. M. Neklyudov,			
and D. F. Smelova	(E)	77	104
"Relaxational Flow Teeth" in CaF ₂ and CdF ₂ Crystals Containing Sm and Nd	(2)	• • •	101
Impurities. V. G. Govorkov	(E/T)	81	109
Selective Etching of Dislocations in Rubidium Iodide Crystals.	(-, -,	٠.	100
É. Yu. Gutmanas and É. M. Nadgornyi	(E)	85	114
Anomalous X-Ray Reflections from Natural and Synthetic Diamonds.	, /		
S. I. Futergendler and G. V. Khatelishviii	(E)	90	120
Effect of Superhigh Pressures on the Magnitude of the Heat Effect during			
the Polymorphic Transformation of Yellow Phosphorus into the Black			
Crystalline Form. S. S. Boksha	(E)	95	126
Determining the Orientation of Impurity Molecules in Naphthalene Crystals			
by Means of Luminescence Polarization Diagrams. G. S. Belikova,			
V. N. Varfolomeeva, and N. D. Zhevandrov	(E)	98	129
X-Ray-Diffraction Study of Optical Textures. V. N. Lebedeva	(E)	102	134
Crystallization with Small Distances between Source and Substrate.			
V. F. Dorfman	(T)	107	140
The Solution and Growth Forms of Garnet Ferrite Crystals.			
V. N. Vertoprakhov, V. D. Zamozhskii, and P. V. Klevtsov	(E)	113	148
Effect of Annealing and Plastic Deformation on Packing Defects in Epitaxial			
Ge Films. A. I. Georgiev	(E)	117	153
Apparatus for X-Ray Structure Studies of Liquid Crystals in Magnetic Fields.	(5)		
V. M. Chaikovskii and I. G. Chistyakov	(E)	123	158
BRIEF COMMUNICATIONS			
Crystal Structure of ZnWO ₄ . O. S. Filipenko, E. A. Pobedimskaya,			
and N. V. Belov	(E)	127	163
The Atomic Structure of Leucosphenite Na ₈ Ba ₂ Ti ₄ O ₄ [B ₄ Si ₂₀ O ₅₈].			
N. G. Shumyatskaya, A. A. Voronkov, and Yu. A. Pyatenko	(\mathbf{E})	130	165
An X-Ray Study of the High-Temperature Form of the Perrhenates of the Rare	-		
Earths and Yttrium. V. I. Ivanov, M. B. Varfolomeev,			
and V. E. Plyushchev	(E)	132	167
The Crystal Structure of Copper Hexamethylenedithiocarbamate. Z. V. Zvonkova and V. I. Yakovenko	(53)		
Ammonium Oxalate—A New Nonlinear Optical Material. A. N. Izrailenko,	(E)	134	169
R. Yu. Orlov, and V. A. Koptsik	(IE)	190	
Heavily Doped Silicon Single Crystals with a Cellular Substructure.	(E)	136	171
V. G. Fomin, M. G. Mil'vidskii, N. S. Belyatskaya, and V. V. Korchazhkin	/TC\	100	170
Electrooptic Effect in Wurtzite ZnS. V. S. Dneprovskii, V. N. Parygin,	(E)	138	172
I. I. Kisil', L. A. Sysoev, and V. S. Solomatin	(E)	141	174
Production of the Single-Domain State in Barium Titanate Crystals.	(42)	444	114
V. G. Gavrilyachenko, V. P. Dudkevich, E. G. Fesenko, A. Yu. Laikova,			
and E. I. Postriganev	(E)	143	175
The Hydrogen Isotope Effect in Potassium Hydroselenite Single Crystals.	·/		
The Phase Transition and Dielectric Anomaly in KD ₃ (SeO ₃) ₂ .			
N. R. Ivanov, L.A. Shuvalov, and N. V. Gordeeva	(E) `	145	177
	• •		ntd)
Available From The American Institute of Physics		•	•
Vol 13, No 1, July-August 1968			
. on may and analogues along			

Vol 13, No 1, Jan-Feb 1968

			RUSS.
	PAG	βE	PAGE
Magnetic Parameters of Single Crystals of Sm _{1-x} Tu _x FeO ₃ . K. P. Belov,			
A. M. Kadomtseva, T. S. Kon'kova, T. M. Ledneva, T. I., Ovchinnikova,			
	(E) 14	R	179
Stoneley Waves at the Subboundaries of Edge and Screw Orientations in Cubic	(~)	•	119
	(T) 15	^	101
Position of Cerium Atoms in the Monoclinic Lattice of ZrO ₂ . 3. K. Filatov	(1) 10	U	181
and V. A. Frank-Kamenetskii	16		100
	15	Z	183
The Optical Parameters of Copper Chloride Films. R. N. Kurdyumova		_	
	(E) 15	5	185
Production of Single Crystals of ABF ₃ Type with Perovskite Structures.			
	(E) 15	8	188
Production of Single-Crystal Plates of Black Phsophorus from the Vapor			
State at Very High Gas Pressures. S. S. Boksha	(E) 16	0	189
Nikolai Mitrofanovich Melankholin (1902-1967)	16	2	192
INFORMATION	16	3	Inside
			back
Association Theorem The Amendana Translationing of Theresian			cover
Available From The American Institute of Physics			
Vol 13, No 1, July-August 1968			

LIJECNICKI VJESNIK Vol 89, No 10, 1967

J. Zergollern and P. Keros:	rage
Habitual Dislocation of the Shoulder Joint	1
M. Prica, D. Razmilić, D. Smokvina, M. Zgrablić and J. Zec:	
Our Results of Clinical Treatment of Renal Failure by Artificial Kidney	16
M. Pasini, I. Prpić, I. Bradić, A. Tiefenbach and M. Potkonjak-Sekso:	~
Splenectomy in Childhood	24
G. Maruashvili:	
Helminthiasis Eradication in the Georgian Soviet Socialist Republic	33
I. Jajić:	
A Case of Ankylosing Spondylitis in Uniovular Twins	38
M. Premužić-Lampič:	
Splenectomy: Indications, Results, Outcome	45
V. Juričić:	
Cyanosis	51
Aveilable From CESTI TT 67-58020/10	

Vol 89, No 11, 1967

B. Ivanišević, S. Cičin-Sain and I. Prpić:	rage
Benign Gastric Tumors	1
M. Kanlić:	
Diabetes mellitus in the Community of Jajce	11
S. Boschi:	
The Spongy Kidney	16
A. Muzuferija and M. Sok:	
Löfgren's Syndrome	25
M. Jurković, E. Libman, L. Svraka, S. Stojšić and J. Kovač- Birkač:	
Microadenomatosis of the Pancreas as the Cause of Hyperinsulinism	31
B. Bezjak and V. Breitenfeld:	
Modern Therapy of Helminthiases	37
B. Kršnjavi:	
The Practical Value of Laboratory Tests in Helminthological Diagnosis	46

METALLOVEDENIE I TERMICHESKAYA OBRABOTKA METALLOV EDITORIAL BOARD

A. D. Assonov
M. E. Blanter
A. K. Cheburkov
O. P. Elyutin
I. N. Fridlyander
Yu. A. Geller
A. F. Golovin
A. P. Gulyaev
I. S. Kozlovskii
M. A. Krishtal
I. V. Kudryavtsev
Yu. M. Lakhtin
V. A. Parfenov
G. I. Pogodin-Alekseev
K. Z. Shepelyakovskii
M. A. Shevtsov

I. I. Trusova

(Editor)

E. D. Surovtseva

METAL SCIENCE

vakii
htal
yavtsev
khtin
enov
lin-Alekseev

HEAT TREATMENT

A translation of METALLOYEDENIE I TERMICHESKAYA
ORRABOTKA METALLOY

Published in cooperation with the Board of Governors of Acta Metallurgica

© 1968 CONSULTANTS BUREAU, A DIVISION OF PLENUM PUBLISHING CORPORATION, 227 West 17th Street, New York, N. Y. 10011

Numbers 11-12 November-December, 1967

CONTENTS

	Engi.	./ nuss
NUMBER 11, 1967		
Fiftieth Anniversary of the Great October Socialistic Revolution	801	2
Intermetallic Compounds - a New Base for Heat-Resisting Materials - I. I. Kornilov	802	3
Development of High-Speed Steels in the Past Fifty Years—Yu. A. Geller	810	12
O. P. Elyutin	815	17
B. M. Ovsvannikov	818	21
Light Alloys after Fifty Years-I. N. Fridlyander	826	31
Heat and Thermomechanical Treatments Utilizing Rolling Heat-K. P. Starodubov	830	36
Strengthening Steels with a Martensitic Structure—M. L. Bernshtein and R. I. Éntin	832	38
EQUIPMENT FOR HEAT TREATMENT SHOPS		
Designing Electrical Resistance Furnaces for Heat Treatment—L. R. Alaverdov	836	43
A. G. Zen'kovskii, V. A. Davydov, and N. N. Lebedev	841	48
-E. A. Smol'nikov	844	51
Cooling Capacity of Molten Salts and Alkalis Containing Water-V. N. Biryukova	850	58
Oil Spray - a New Quenching Medium - N. V. Zimin	854	62
rechnical information		
Chemicothermal Treatment of Metals with Combustible Pastes-V. I. Prosvirin and		
G. S. Lotsmanov	860	68 Contd

Available From Consultants Bureau

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau, a division of Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011, U.S.A.

METALLOVEDENIE I TERMICHESKAYA OBRABOTKA METALLOV No 11-12, November-December 1967

	Engl./	/Russ.
Phase Composition of the Boundary Zone of Aluminum-Copper Pimetals-F. L. Lokshin,		
F. G. Gol'der, and R. M. Sizova,	864	72
E. Ya. Lezinskaya	866	72
N. V. Khakhlova	869	75
FROM FORFIGN TECHNOLOGY Blocket Colonic Alloys for Casting Gas Turbine Vanes (Translated from "Nickel Bulletin,"		
Vol. 39, Nos. 1 and 2, 1966)		76)
Methods and Materials, Vol. 1, No. 2, 1966)		76]
Vol. 63, No. 7, 1965)		77]
Abstracts, Vol. 63, No. 5, 1965)		77]
NEW BOOKS	871	78] 79
NUMBER 12, 1967		
TITANIUM AND ITS ALLOYS		
Recovery during Aging of Commercial Titanium Alloys-L. P. Luzhnikov, V. M. Novikova,		
A. P. Mareev, and I. S. Orlova	875 880	2 8
Structure and Properties of Ti-Al Alloys - V. P. Kuraeva, O. P. Solonina, and	000	Ū
Zh. D. Tkhorevskaya	885	13
-L. A. Glikman and L. M. Feigin	888	16
NONFERROUS METALS AND ALLOYS		
Investigation of the Chemical Composition and Structure of Welded Joints of Al-Zn-Mg Alloys-I. N. Fridlyander, O.A. Setyukov, I.I. Titarenko, T.V. Barasheva,		
N. F. Lashko, and O.A. Khromova	892	20
D16 Alloy - V. P. Kozlovskaya and G. V. Kosyr'kova	897	24
THERMOMECHANICAL TREATMENT OF METALS		
Effect of High-Temperature Thermomechanical Treatment on the Mechanical Properties	000	97
of Chromium-Manganese-Silicon Steel-M.V. Pridantsev and É. I. Ivantsova The Increase in Strength Resulting from Thermomechanical Treatment-G. Rassmann and P. Muller.	900	27 30
Fracture of Chromium-Nickel Steels Subjected to Thermomechanical Treatment -V. I. Kumanin	909	37
Effect of Thermomechanical Treatment on the Structure and Properties of 40KhNMA and 30KhGSA Steels-V. N. Danilov and V. V. Ermakov	912	40
Effect of Quenching Temperature on the Fine Structure and Properties in Mechanico- thermal Treatment of the VT15 Alloy—M. Kh. Shorshorov and G. E. Kainova	915	44
•		
TECHNICAL INFORMATION Effect of Lithium on the Aging and Mechanical Properties of Al-Zu-Mg Alloys-M. E. Drits,		
E. S. Kadaner, and V. I. Kun'mina	920 (C	50

Available From Consultants Bureau

METALLOVEDENIE I TERMICHESKAYA OBRABOTKA METALLOV No 11-12, November-December 1967

	Engl.	/Russ
Kinetics of the Decomposition of Residual Austenite during Heat Treatment of Sormite No. 1	-	
-B. M. Fishtein	923	53
R. A. Zykova, and D. D. Kurchenok	925	54
Aluminum and Copper - N. M. Voropai and A. Ya. Shinyaev	926	55
I. P. Mozharenko, and N. V. Kabakova Effect of High-Temperature Thermomechanical Treatment with Induction Heating on the	928	57
Properties of Spring Steel-O. I. Shavrin	930	59
Sheet Steel-A. E. Zakharov, V. I. Gerus, and L. O. Miroshnichenko	932	60
Annealing of Hard-Faced Tools—A. I. Biryukov and R. Ya. Borodulina	935	63
-E. N. Busalaeva, N. N. Lipchin, and S. M. Rapoport	937	64
M. Z. Lubenskii	940	66
L. A. Afanas'ev, and É. G. Shreder	943	68
Ferrite-G. M. Chubinidze	945	70
Properties of Microwire-Z. A. Timofeeva and T. G. Petrova	947	71
FROM FOREIGN TECHNOLOGY		
Surface Hardening of Metals by Atomloy Method	950	75
INDEX		
Author Index, Numbers 1-12, 1967	953	
Table of Contents, Numbers 1-12, 1967	957	

The Table of Contents lists all material that appeared in the original Russian journal, Items originally published in English or generally available in the West are not included in the translation and are shown in brackets. Whenever possible, the English-language source containing the omitted items

Available From Consultants Bureau

is given.

The Russian press dates (podpisano k pechati) of the first and second issues covered in this issue of the translation were, respectively, 10/26/1967 and 11/29/1967. Publication of the material translated in this issue is therefore known to have occurred not prior to the earlier of these dates, but must be assumed to have taken place in two parts, the second being published shortly after the later of the dates.

OPTIKA I SPEKTROSKOPIYA Vol 24, No 3, 1968

(Numbers in parentheses are original Russian page numbers. These Russian page numbers are also quoted at the head of each paper.)

• • • • • • • • • • • • • • • • • • • •		
Depolarization of Resonance Fluorescence during Anisotropic Collisions		
Elliptical Polarization of Radiation from Relativistic Electrons in a Magnetic Field	163	(309)
The Effect of Three-Particle Forces on the Hyperfine Structure of the Helium Atom	166	(316)
	169	(322)
Spectroscopic Study of the Mechanism of Formation of Excited Mercury Ions in the Positive Column of a Low-Pressure Discharge	171	(327)
Determination of the Temperature of Ions and Neutral Atoms, and the Concentration of Electrons in a	111	
Source of Multiply Charged Ions	176	(337)
V. Ya. Aleksandrov, D. B. Gurevich, and I. V. Podmosiænskii	178	(342)
Theory of Magnetic Resonance Induced by Modulated Light	182	(348)
On the Polarization of Radiation in a Gas Laser	185	(355)
Features of the Propagation and Focusing of Multimode Laser Radiation	103	(355)
On the Velocity Distribution Function of the Products of Decomposition Caused by the Photodissociation	188	(361)
of Molecules	191	(367)
Approximate Anharmonic Potential Functions of Polyatomic Molecules. The Case of Two Isotopic Modifications of Triatomic Nonlinear Symmetric Molecules		
Static Jahn-Teller Effect in the CCl ₄ Molecule and Its Raman Spectrum	194	(372)
E. M. Verlan	197	(378)
The Effect of Centrifugal Distortion on the Rotational Levels of Symmetric Rotor Type Molecules in the Second and Fourth Order	201	(388)
Experimental and Theoretical Study of the Absolute Intensities of Infrared Spectra of Gaseous Hydrocar- bons		
Integrated Intensities of the C-D Valence Vibrations of Benzene-de and Cyclohexane-de in Active Solvents	204	(393)
Determination of the Humidity of Gas Mixtures by Means of Infrared Absorption Spectra, III, Regularities	207	(399)
in the Absorption of Infrared Radiation by Water Vapor in Unresolved Spectral Bands		
Quasiline Luminescence Spectra of Benzene	208	(401)
Chemiluminescence in Solutions. IV. Determination of the Yield from the Excitation of Diacetyl by Oxi-	213	(412)
dation of Methylethylketone	217	(419)
The Nonlinear Luminescence of a Light-Diffusing Layer	220	(424)
Study of Nonlinear Distortions in the Case when a Kerr Cell is used for Light Modulation	222	(428)
Polarization Filter for the Optical Pumping of Alkali Metals		
Heat-Shielding Interference Coatings	225	(433)
Optical Transfer Function in the Region of Low Spatial Frequencies as a Quality Criterion in the Auto-	227	(437)
matic Correction of Optical Systems	229	(442)
•	(Contd)
Aveilable From The Ontical Society of America. Inc.		

Available From The Optical Society of America, Inc.

OPTIKA I SPEKTROSKOPIYA Vol 24, No 3, 1968

SHORT COMMUNICATIONS		
Excitation of the Resonance Line of Xenon by Electron Impact		
Absorption Spectra of Lithium Atoms Stabilized in Noble-Gas Matrices	232	(448
Absorption Spectra of Lithium Atoms Stabilized in Noble-Cas Matrices	233	(449
Effect of Energy Redistribution between Modes on the Nature of the Nonstationary Radiation of a Laser	234	
An Equation for the Natural Frequencies of a Nonconfocal Resonator with Cylindrical Mirrors which	201	(
Takes Mirror Aberration into Account	236	(453
V. V. Antsiferov, G. V. Krivoshchekov, and K. G. Folin Excitation of Induced Raman Lines with High Generation Thresholds	237	(454
Ya. S. Bobovich and A. V. Bortkevich Splitting of the Resonance Scattering Line under Strong Monochromatic Irradiation	238	(456
Calculation of Kinematic Coefficients by Means of Electronic Computers	239	(458
G. V. Kazakova A Relationship between the Centrifugal Stretching Constants and the Coriolis Interaction Constants for	240	(460
Polyatomic Molecules	241	(461
V. Varshani, A. Nosmeii, and L. Imre Determination of the Frequency of Torsional Vibrations of the CCl, Group from Data on Nuclear Quadru-	243	(462
pole Resonance ,	244	(465
On the Asymmetry of the Indicatrix of Raman Scattering	240	(466
Intensities, Depolarizations, and Widths of the Raman Lines of Thiophene, Furan, Pyrrole, and Cyclopen-		•
tadiene N. K. Sidorov and L. P. Kalashnikova	247	(469
Temperature Dependence of the Fluorescent Properties of Certain Substituted Polyenes	250	(473
Changes in the Spectra of Molecular Crystals Caused by Their Thermal Deformation		,,,,,
V I. Browle	251	1475

Available From The Optical Society of America, Inc.

SOVIET RADIOCHEMISTRY

A translation of Radiokhimiya

Volume 9, Number 6

November-December, 1967

CONTENTS

	Engl./I	Russ.
Experiments on the Chemistry of Element 102. I. Adsorption of the Chloride of Element 102 from the Gas Phase — Yu. T. Chuburkov, R. Tsalertka, M. R. Shalaevskii, and		
I. Zvara	599	637
 V. I. Paramonova, G. A. Akopov, and L. A. Kochevanova Some Problems of Determining the Composition and Stability of Compounds in Solutions with 	604	642
Constant Ionic Strength — V. V. Fomin	613	652
Uranyl — V. F. Peretrukhin, N. N. Krot, M. P. Glazunov, and A. D. Gel'man Study of the Consequences of the (n, γ) Reaction in Tin Dioxide by the Nuclear γ Resonance	624	665
Method — A. M. Babeshkin, K. V. Pokholok, A. A. Bekker, and An. N. Nesmeyanov On the Production of 2-Deoxy-D-ribose, Labeled with Tritium — V. M. Vdovenko,	627	668
V. N. Bobrova, L. S. Gordeeva, V. K. Dedova, A. V. Zharkov, and V. G. Seleznev Reactions of T ⁺ Ions in Benzene—Iodine Mixtures in the Solid Phase — L. P. Firsova and	631	673
Do Kim Tyung	638	681
Indicated Compounds G. I. Meerov.	644	687
BRIEF COMMUNICATIONS Investigation of the Sorption of Sodium on an Antimony-Phosphorus Ion-Exchange Resin		
- R. F. Brigevich and R. A. Kuznetsov	649	693
Silicon — V. S. Sotnikov, A. S. Belanovskii, and L. M. D'yachenko Study of the Sorption of Cesium by Ferrocyanides — V. N. Baranovskii, Ya. Viza,	652	695
G. S. Katykhin, and M. K. Nikitin	654	698
É. A. Mezhov, and S. S. Novikova	657	700
— A. A. Nemodruk	662	704
A. B. Shalinets	664	707
T. P. Makarova, A. M. Maksimova, and A. B. Shalinets	667	710
Solutions of Nitric Acid — B. P. Nikol'skii, M. V. Posvol'skii, and G. S. Markov Study of the Complex Formation of Cerium with Histidine — É. M. Rogosina, D. K. Popov,	671	713
and T. M. Ponikarova	674	715

Available From Consultants Bureau

RADIOKHIMIYA
Vol 9, No 6, Nov-Dec 1967

CONTENTS

Engl./Russ. The Problem of the Complex Formation of Trivalent Plutonium, Americium, and Certain 718 Bromide Anionic Complexes of Uranyl in Nonaqueous Solutions - Yu. I. Belyaev, 680 720 Thorium and Uranium (IV) Pyrophosphates - S. A. Merkusheva, N. A. Skorik, V. N. Kumok, 723 683 and V. V. Serebrennikov Synthesis and Identification of Certain Mesityl Derivatives of Polonium - V. E. Zhuravlev 726 686 and N. F. Antiping 727 On the Question of the Existence of UOF₂-V.M.Vdovenko, G.A. Romanov, and L.V.Solntseva 688 Thermochemistry of the System Ce(NO₂)₃·3TBP-TBP-n-C₁₀H₂₂ - Yu. A. Afanas'ev and 730 T. I. Koroleva On the Fusibility Diagram of the System U_3O_6 —Na₂SO₄ — V. K. Val'tsev......... 694 733 Formation of XeO₃ in the β Decay of Iodine-131 Contained in Certain Periodates - Yu. K. Gusev, I. S. Kirin, and V. K. Isupov 736 Chemical Changes in the \(\beta \) Decay of RaE, Contained in Tri-para-sulfamidophenylbismuth 700 738 Determination of the Yields of Labeled High-Boiling and Polymer Reaction Products of 704 741 Method of Preparing Radioactive Sources of Soft X-rays - L. D. Danilin, S. I. Lobov, 743 Sensitivity of the Microautoradiographic Method of Determining α -Radioactive Isotopes 709 745 Principles of the Purification of Nontechnological Sewage by the Method of Freezing Out of Ice on the Wall - A. A. Pospelov, V. D. Puzako, and V. G. Chukhlantsev 712 748 LETTERS TO THE EDITOR Letter to the Editor of the Journal "Radiokhimiya" - M. A. Ryazanov 716 752 Reply to the Letter of B. P. Matseevskii and L. K. Lepin' - E. A. Kanevskii, I. V. Goncharov, 717 753 INDEX Table of Contents, Volume 9, 1967

The Russian press date (podpisano k pechati) of this issue was 12/25/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available From Consultants Bureau

RUDARSKO - METALURSKI ZBORNIK No 3/4, 1967

Schubert, H.: Some Fundamentals of Collector Adsorption in Flotation	5
Dobovišck, B., L. A. Mechkovski. and A. Rosina: Thermodynamic Problems in the Phase Changes of Selenium	17
Marinković, V., D. Kolar, V. Kraševec, M. Trontelj, A. Urbane, and A. Vene: Some Physical	
Properties of Nuclear Graphite	21
Bertapelle, A.: Economy of Drilling with Percussion Rock Drills	29
Kotnik, D., M. Dular and A. Kotar: Possibilites of Treating the Phenol Wastes on the Generator Slags at the Ravne Iron Works	13
Zagoričnik, S.: Inspection and Maintenance of Steel Gallery Supporting	53
Kotar, A., M. Dular and D. Kotnik: Biological Treatment of Phenol Wastes Mixed with Municipal Sewage	57
Available From CFSTI TT 67-58017/3-4	

TEORIYA VEROYATNOSTEI I EE PRIMENENIYA Vol 12, No 1, 1967

On the Asymptotic Properties of Some Statistical Estimates for Gaussian	
Stochastic Processes	1
Optimum Inventory Policies With a Convex Ordering Cost Function	
E. V. Bulinskaya	9
Convergent and Asymptotic Expansions for Probability Distributions	
V. M. Kalinin	22
Incomplete Exponential Families and Minimum-Variance Unbiased Estima-	
tors, I A. M. KAGAN and V. P. PALAMODOV	36
On the Limit Distribution of the Number of Solutions of a Random System of	
Linear Equations in the Class of Boolean FunctionsI. N. KOVALENKO	47
Uniform Local Limit Theorems in the Classical Ball Problem for a Case with	
Varying Lattice	57
On the Control of a Wiener Process for a Limited Number of Switchings	
P. MANDL	68
On the Rate of Convergence in the Multidimensional Central Limit Theorem	
V. V. SAZANOV	77
A Theorem on Admissible Tests and its Application to an Asymptotic Problem	
of Testing Hypotheses	90
SHORT COMMUNICATIONS	
On Ergodic Properties of Queues with Constraints	
L. G. Afanas'eva and A. V. Martynov	104
On an Estimation of Parameters of a Distribution With an Exponential Factor	104
I. B. Gertsbach	110
Approximate Construction of Confidence Intervals for Parameters of Markov	110
ChainsS. N. GARABEDYAN and I. V. ROMANOVSKII	112
On Maximum Likelihood Estimation of Parameters of the Spectral Density of	112
Stationary Time Series	115
The Structure of a Stationary Renewal Process	
G. P. KLIMOV and L. S. FRANK	120
Remarks on Uncorrelated Gaussian Dependent Random Variables	
O. V. SARMANOV	124
Convergence of the Distribution of the Number of Empty Boxes to Gaussian	147
and Poisson Processes in the Classical Ball ProblemB. A. Sevast'yanov	126
On Measures whose Support is Generated by a Lie Algebra. V. N. Tutubalin	134
The Use of the Integral Functional for Some Control Methods in the Presence	137
of Small Random Perturbations	139
Necessary and Sufficient Conditions for the Asymptotic Stability of Linear	137
Stochastic Systems	144
Sequential Estimates of Parameters	147
Asymptotic Behavior of the Probability of Non-Extinction of a Critical	17/
Branching Process	152
Printeding Tracess DEAVEL AND	4 4 6
REVIEW AND BIBLIOGRAPHY	
Review of R. L. Stratonovich's Book Conditional Markov Processes and their	
Application to the Theory of Optimal ControlA. V. SKOROKHOD	154
New Bocks	157

Available From The Society for Industrial and Applied Mathematics

TEORIYA VEROYATNOSTEI 3 EE PRIMENENIYA Vol 12, No 2, 1967

Convergence of Weakly Dependent Processes to the Wiener Process A. A. Borovkov	159
General Boundary Conditions for Denumerable Markov Processes	107
E. B. Dynkin	187
Homogeneous Markov Processes without Discontinuities of the Second KindА. V. Sкогокнор	222
On the Connection Between F-Continuity and P-Uniformity in Weak Convergence	241
Coalition Games	251
Necessary and Sufficient Statistics for the Family of Shifts of Probability Distributions on Continuous BiCompact GroupsV. M. MAKSIMOV	267
SHORT COMMUNICATIONS	
On an Estimate of the Remainder Term in the Central Limit Theorem L. V. Osipov and V. V. Petrov	281
On a Limit Theorem for an Attrition Game	286
On Stochastic Matrices and Kernels S. Natarajan, T. E. S. Raghavan and K. Viswanath	294
A Refinement of Two Theorems in the Theory of Branching Processes	274
C. R. HEATHCOTE, E. SENETA and D. VERE-JONES	297
On Random Matrices	301
On Martin Boundaries for the Direct Product of Markov Chains S. A. MOLCHANOV	307
Martin Boundaries for Invariant Markov Processes on a Solvable Group S. A. MOLCHANOV	310
On Estimating the Expected Number of Direct Descendants of a Particle in a Branching Process	314
Limit Theorems for Functionals of Sample Functions of a Stationary Gaussian Process	320
Boundary Problems for Sums of Lattice Random Variables, Defined on a Finite Regular Markov Chain	323
Some Generalizations of a Boundary Value Problem with Oblique Derivative A. L. ROZENTAL'	329
On the Robbins-Monro Procedure for the Case of Several Roots T. P. Krasulina	333
Summary of Papers Presented at the Sessions of the Mathematical Statistics Seminar of the Mathematics Institute of the Academy of Sciences of the	333
USSR 1965-1966	337
Letters to the Editors	342
New Books	344
Available From The Society for Industrial and Applie Mathematic	

THEORIYA VEROYATNOSTEI I EE PRIMENENIYA Vol 12, No 3, 1967

Review of Harald Cramér's and M. R. Leadbetter's Book Stationary and Related Stochastic Processes. Sample Function Properties and Their Applications	531 533
REVIEWS AND BIBLIOGRAPHY	
Letters to the Editor	529
A Stochastic Integral for Operator-Valued Functions N. N. VAKHANIYA and N. P. KANDELSKI	525
The Number of Observations Needed to Distinguish Between Two Closely Related Hypotheses	519
On Statistical Tests for a Simple Hypothesis Involving a Multi-Dimensional Normal Distribution	514
Yu. P. Studnev and Yu. I. Ignat A Characterization of the Normal Law by the Property of Partial Sufficiency A. M. Kagan and O. V. Shalaevskii	508 512
On the M-Divisibility of Stable Laws	506
Diffusion Equation	497 500
On a Class of Degenerate Diffusion ProcessesI. M. SONIN On the Limit Behavior of the Distribution of the Solution of a Stochastic	490
On Small (In the Weak Sense) Perturbations in the Coefficients of a Diffusion Process	487
SHORT COMMUNICATIONS	
Igor' Vladimirovich Girsanov	482
On the Chebyshev-Cramér Asymptotic ExpansionsI. A. IBRAGIMOV Probabilistic Properties of Bilinear Expansions of Hermite Polynomials O. V. SARMANOV and Z. N. BRATOEVA	455 470
Limit Theorems for Some Functionals of Random WalksG. N. SYTAYA Ergodic Theorems for a Class of Markov Processes	432 443
YU. K. BELYAEV On the Convergence to Diffusion Processes	392 405
Parameter Convolution Semigroup	373 381
An Asymptotic Expansion for the Maximum Likelihood Estimate of a Vector Parameter	364
On the Theory of Approximately Minimax Detection of Signals in Gaussian Noise to V. I. Smirnov on his Eightieth Birthday Yu. V. Linnik, Yu. V. Prokhorov and O. V. Shalaevskii	347

Available From The Society For Industrial and Applied Mathematics

TSVETNYE METALLY Vol 40, No 2, 1967

(Centimued)		
S. I. Chishov, F. V. Korolev, and K. N. Korsumekaya QUENCRING BERTILIUM-BRONZE STRIPS	101	(81)
K. I. Envostyntsev, M. A. Hikanorev, I. S. Anitov, and A. S. Mikhailov MECHANICAL PROPERTIES OF WEIDED JOINTS FROM β-ALLOTS OF THE STRIM TI-AL-Mo-V-Cr	96	(77)
E. L. Gurevich and M. A. Sirotkins SPECIALIZATION OF PLANTS FOR THE PRODUCTION OF HARD ALLOIS — AN DEPORTANT FACTOR IN INCREASING PLANT EFFICIENCY	91	(74)
V. V. Alekseev, E. In. Revutskii, M. L. Podgoetskii, and V. I. Shvartser CONTROLLING THE OPERATION OF RECTIFIING COLUMNS	88	(70)
Tu. G. Olesov, V. S. Ustinov, A. M. Rubtsov, A. B. Suchkov, and V. A. Drosdenko HYDRATION OF TITANIUM ALLOY WASTES.	86	(69)
P. P. Baiborodov, G. A. Tsyganov, L. Ya. Mikhailyuk, A. M. Shuklin, V. B. Kononov, G. E. Aizenberg, T. A. Aliev, and N. Mrtylkhanov REFINING ATIMONY FROM ARSENIC, AND REMOVING IT FROM THE PROCESS	83	(67)
N. I. Andrusenko, V. P. Lelyuk, O. V. Prusevich, and A. I. Uraev STEAM SEALING OF COOLERS IN ROTARY FURNACES, USED TO CALCINE CARBONACEOUS MATERIALS	80	(64)
V. P. Sosedov, V. B. Sass-Tisovskii, and A. S. Karmanov OPTIMUM POWER AND TEMPERATURE SCHEDULE FOR GRAPHITIZING PROCESSES.	77	(62)
S. S. Solntsev A METHOD OF DETERMINING THE FLUORINE BALANCE IN ALUMINUM ELECTROLISIS.	74	(59)
A. A. Dmitriev, M. A. Korobov, and A. Ta. Sharunov ELECTRIC RESISTIVITY OF THE PIN- ANODE CONTACT AREA, AND VOLTAGE LOSSES IN SELF-BAKING ANODES	70	(55)
I. Z. Pevzner, A. I. Lainder, N. M. Kontorovich, Z. P. Kotenko, and O. I. Arakelyan TESTING THE METHOD OF ALUMINA SOLUTION DESILICONIZING WITHOUT DIGESTION IN AUMILLAES.	ಟ	(47)
B. I. Arlyuk, V. A. Mazel, and E. I. Khodorov KINETICS OF SINTERING NEPHELINE CHARGES	54	(42)
I. P. Vyatkin, O. I. Brandman, and E. P. Bondareva AN EXAMINATION OF MAGNESIUM CASTING ON A CASTING CONVEYOR	я	(40)
V. V. Toporova, M. I. Kochnev, and E. A. Vetrenko AN EXAMINATION OF EQUILIBRIUM IN ZINC-SUIFIDE BASE SYSTEMS	45	(36)
Iu. V. Orlovtsev, M. V. Teslitskaya, and A. N. Krestovnikov THEORETICAL PRINCIPLES UNDERLYING HIGH-TEMPERATURE CHLORINATION ROASTING OF PIRITE CINDERS	39	(32)
V. I. Dolgikh, P. I. Bobikov, V. F. Borbat, and M. B. Ferberg RECOVERY OF NOBLE MET- ALS FROM NICKEL AND COPPER ELECTROLISIS MIDS BY EXTRACTION TO AMINES	33	(27)
E. Ya. Ben'yash, G. I. Gnatyshenko, and G. A. Motornaya OBTAINING ELEMENTAL SULFUR FROM PIRITE CONCENTRATES	29	(24)
A. P. Smurnikov, V. F. Iarin, E. V. Margulis, and S. M. Krasavina FLUIDIZED-BED ROAS TING OF ZINC CONCENTRATES WITH HIGH SO ₂ CONCENTRATIONS IN THE GAS PHASE		(21)
N. T. Tsybaev NEW STANDARD TYPES OF SLURRY PUMPS		(17)
N. F. Meshcheryakov TESTS ON FLUIDIZED-BED FLOTATION MACHINES		(13) (16)
S. V. Khryashchev and E. M. Koslovskaya PILOT TESTS ON CHLORINE_SODA LEACHING OF		
O. K. Shcherbakov and I. A. Kakovskii A STUDY OF THE KINETICS OF COPRECIPITATION OF GOLD, SILVER, AND COPPER FROM CYANIDE SOLUTIONS		(10)
A. A. Mironov DEVELOPMENT OF THE NICKEL-COBALT INDUSTRY IN THE USSR	1	(1)

Available From Primary Sources Vol 8, No 2, 1967

TSVETNYE METALLY Vol 40, No 2, 1967

THIRD SCIENTIFIC-TECHNICAL CONFERENCE OF WORKERS IN FACTORY LABORATORIES OF LIGHT	1	
THEATMENT OF ORES FROM CENTRAL ASIA	3	(82)
	٥	(87)
	1	(88)
READERS DISCUSS THE WORK OF THE JOURNAL, "ISVETNIE METALLY"	2	(89)
A. A. Tseidler INCREASES IN NICKEL PRODUCTION IN CAPITALIST COUNTRIES	4	(90)
A. Pen'ko FLUOSOLID ROASTING OF COPPER CONCENTRATES	7	(92)
V. P. Savraev, M. F. dogatyrev, and V. N. Kasakov REVIEW OF "ATIAS OF DIAGRAMS AND NOMOGRAMS ON GASEOUS TECHNIQUES," BY I. L. PEISAKHOV	9	(93)
V. N. Vigdorovich REVIEW OF "PHASE DIAGRAMS OF BINARY AND TERNARY SYSTEMS," AND OF "PHASE DIAGRAMS OF QUATERNARY SYSTEMS," BY A. M. ZAKHAROV	0	(94)
Note: Numbers in parentheses represent page numbers in Russian original.		

RUSSIAN ABBREVIATIONS IN TEXT

AN SSSR Academy of Sciences, USSR
CC CPSU Central Committee, Communist Party, Soviet Union.
DAN Proceedings of the Academy of Sciences.
Gintsvetmet State Institute of Non-Ferrous Metals.
Girronikel' State Institute for the Design and Flanning of Nickel Establishments.
Giprotsvetmet State Institute for the Design and Planning of Mon-Ferrous Establishments
Giredmet State Rare Metals Institute.
Gosplan State Planning Committee of the Council of Ministers of the USSR.
GOST All-Union Standard.
IL Foreign Literature Publishing House.
Karsisr Karakh SSR
L-M Leningrad-Moscow.
Mekhanotr Scientific Research Institute for Mechanical Concentration of Minerals.
MVTU Moscow Higher Technical Echool.
TsINTsvetmet Central Institute for Information on Mon-Perrous Metals.
TanlichM Central Scientific Research Institute of Ferrous Matallurgy.
UaZ Ural Aluminum Plant.
UFAN Ural Branch of the Academy of Sciences of the USSR.
UkrSSR Ukrainian SSR.
VAMI All-Union Aluminum and Magnesium Institute.
VIUZ Institute of Higher Technical Education.
VUZ Institute of Higher Education.

Available From Primary Sources Vol 8, No 2, 1967

USPEKHI FIZICHESKIKH NAUK Vol 92, July-August 1967

	=		sian
	Page	Refer	rence
Solid State Lasers	419	92,	373
Modern Status of the Theory of Light Reflection	453	92,	427
The Electrodynamics of Substances with Simultaneously Negative Values of ϵ and μ	485	92,	479
Some Problems in the Theory of Nuclear Reactions at High Energies (T)	509	92,	517
Ferromagnetic Resonance and Plasma Effects in Metals	515	92,	549
Nuclear Fission	536	92,	583
A. I. Obukhov and N. A. Perfilov	559	92,	621
Personalia			
Alekseĭ Vasil'evich ShabnikovB. K. Vaĭnshteĭn, V. M. Fridkin, and L. A. Shavalov	600	92,	539
Letter to Editor			
Concerning the Outer Ionosphere and its Transition into the Interplanetary Medium			
V. V. Bezrukikh, T. K. Breus, G. L. Gdalevich, B. N. Gorozhankin, V. A. Rudakov	602	92,	543
Methodological Notes Demonstration of the Phenomenon of Weightlessness (E)			
G. I. Dluzhnevski	606	92,	713

Available From The American Institute of Physics Vol 10, No 4, Jan-Feb 1968

USFEKHI FIZICHESKIKH NAUK Vol 93, No 1-2, March-April 1968

	Page		sian rence
Self Focusing and Diffraction of Light in a Nonlinear Medium			
S. A. Akhmanov, A. P. Sukhorukov, and R. V. Khokhlov	609	93,	19
Current Methods for the Study of the Stark Effect in Atoms			
	637	93,	71
The Isotope Effect in the Spectra of the Heavy Elements			
	658	93,	111
Fifty Years of Soviet Physics			
· · · · · · · · · · · · · · · · · · ·	678	93,	197

Available From The American Institute of Physics Vol 10, No 5, March-April 1968

INDUSTRIAL LABORATORY

A translation of Zavodskaya Laboratoriya

Volume 33, Number 12

December, 198

CONTENTS

	Engl.	./Russ.
METHODS OF CHEMICAL ANALYSIS		
Developments in Analytical Chemistry during 1966 (Review)—A. K. Babko	1683	1473
-R. G. Pats and T. V. Semochkina	1700	1491
Current Polarography-Yu. S. Lyalikov, L. S. Kopanskaya, and Z. P. Kuleva	1703	1493
Determination of High-Boiling Methylphenylpolysiloxanes with a Low Temperature Column — B. M. Lukina, G. N. Turkei'taub, and S. V. Syavtsillo	1706	1496
Determination of Cobalt in Products from Nickel Manufacture (Exchange of Experience) -É. Sh. Ioffe and A. D. Karaseva	1711	1502
Use of a Photoelectric Titrimeter for the Complexometric Determination of Calcium Oxide in Chromium Ores and Concentrates (Exchange of Experience)—A. A. Fedorov,		
F. A. Ozerskaya, and E. N. Strebulaeva Determination of Bismuth as a Microimpurity in Cobalt and its Salts by Means of Concentration	1712	1502
Precipitation (Exchange of Experience)-V. T. Chuiko and N. I. Reva	1712	1503
Determination of Gases in Ferrochrome-V. S. Shitikov and N. A. Gederevich	1713	1503
METHODS OF SPECTRAL ANALYSIS Quantitative X-Ray Spectral Determination of Molybdenum in the Pulp of a Molybdenum Concentrate—Yu. A. Studennikov, R. A. Belova, and N. F. Losev	1715	1504
Use of the Standard-Background Method in the X-Ray Spectral Fluorescence Analysis of Pulp-B. A. Stulov	1717	1505
One Method of Registering Radiation for Dispersionless X-Ray Spectrum Analysis		
-Yu. P. Betin, F. M. Lipkin, and L. S. Shelkov	1720	1508
- B. A. Malyukov, Yu. M. Ukrainskii, and V. E. Korolev Effect of Structure and "Third" Components on the Results of a Spectral Analysis	1723	1511
of Copper-Zinc Alloys-I. A. Grikit, E. G. Galushko, and S. P. Chernyshova Effect of the Results of a Dummy Experiment on the Determination of Microcontaminants	1726	1513
in Salts and Monocrystals—É. S. Zolotovitskaya and E. I. Yakovenko	1730	1516
Magnetic Relaxation Method-A. A. Popel' and Z. A. Saprykova	1734	1519
PHYSICAL METHODS OF INVESTIGATION Methods of Determining the Energy of Stacking Faults (Review)—Ya. D. Vishnyakov		
and V. S. Khaimovich Method of Studying the Substructural Characteristics of Metals by X-Ray Diffraction	1737	1522
O. A. Kaibyshev, G. N. Epshtein, and L. V. Kazachkov	1744	1528
•	(0	ontd)

CONTENTS

(continued

ZAVODSKAYA LABORATORIYA Vol 33, No 12, 1967

	Engl.	./Russ
A Method of X-Ray Phase Analysis for Use in Studying Polymorphic Transformations -A. M. Gavrish, S. V. Lysak, and B. Ya. Sukharevskii	1747	1530
Study of Diffuse X-Ray Scattering by Aging Alloys in the URS-50IM Diffractometer -A. A. Fridman, E. B. Granovskii, and P. P. Pashkov	1751	1533
Diffractometric Study of the Size and Orientation Distribution of Grains-G. M. Vorob'ev, L. I. Kotova, and I. P. Shmyrev	1753	1535
Radiographic Method for Determining the Residual Stresses and the Oxygen Concentration in Titanium-D. M. Vasil'ev, A. I. Mel'ker, and V. V. Trofimov	1758	1539
Specimens—G. V. Davydov, V. P. Dzekhanovskaya, and N. A. Erokhov Separation of the Compton Component in the Scattering of X-Ray Beams by Amorphous	1761	1541
Materials (Exchange of Experience)—V. V. Nechaeva and A. I. Soklakov Method for Approximating the Profile of X-Ray Lines (Exchange of Experience)	1763	1543
-G. V. Davydov, N. A. Erokhov, and G. F. Belyaeva	1764	1544
The Problem of Assessing the Tendency of Steel to Brittle Fracture-V. S. Ivanova		
and V. G. Kudryashov	1766	1546
Specimens-L. I. Gladshtein and O. N. Vinkler	1768	1548
The Critical Crack Size in Assessing the Brittleness of a Steel-A. S. Rakhmanov, L. S. Livshits, and A. P. Gruzinov	1772	1552
Determination of the Susceptibility of a Steel to Cold Brittleness from the Appearance	1007	
of the Fracture-R. G. Arone, S. V. Bershtein, and P. I. Sokolovskii	1775	1555
-A. D. Chudnovskii Methods for Determining Crack Sensitivity-B. A. Drozdovskii, L. V. Prokhodueva,	1778	1558
and Ya. B. Fridman	1781	1561
From the Editorial Board Determination of the Strength of Sheet Glass on a Flexible Plate—L. D. Volovets	1791	1570
and G. S. Pugachev	1794	1572
and G. K. Sharshukov	1796	1574
INSTRUMENTS AND LABORATORY TECHNIQUES Multichannel Diffractometer for Quantitative Phase Analysis—L. S. Zevin and D. M. Kheiker Heating Attachment and a Reversing Device for Oscillating the Counter for the URS-501	1798	1576
Diffractometer—B. Ya. Sukharevskii, A. M. Gavrish, and S. V. Lysak	1804	1581
Range of Temperature (Exchange of Experience) - T. P. Andreeva and L. L. Burshtein	1807	1583
Viscosimeter with Interchangeable Capillary Tubes (Exchange of Experience)—R. Z. Pen	1808	1584 1585
BOOK REVIEWS		2002
V. G. Berezkin - Analytical Reaction Gas Chromatography-Reviewed by M. L. Yamovskii	1811	1586
B. V. L'vov—Atomic Absorption Analysis—Reviewed by M. É. Britske	1812	1587
Strength of Materials at High Temperatures-Reviewed by Ya. B. Fridman and N. D. Sobolev	1814 (Co	1588 ntd)
Veilable From Coneultante Bureau	, 50	/

CONTENTS

continued)

ZAVODSKAYA LABORATORIYA Vol 33, No 12, 1967

VOI 33, NO 12, 190?		Engl./Russ.	
INFORMATION			
Standardizing the Methods of Determining the Chemical Composition of a Metallurgical Product			
- B. V. Fedin	1816	1589	
and I. E. Bryksin	1817	1590	
Compounds—I. Orient	1818	1591	
Research Institute of Ferrous Metallurgy-L. T. Timoshuk	1821	1593	
New Handbooks of Articles on Analytical Chemistry	1823	1594	
New Hallabooks of Fraction of	1020	1004	
NECROLOGY Zoya Fedorovna Shakhova	1824	1595	
INDEX Author Index, Volume 33, Numbers 1-12, 1967	1827 1837		
Lable of Colitetts, volutile 33, Nutribers 1-12, 1301	1001		

The Russian press date (podpisano k pechati) of this issue was 11/30/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI Vol 53, No 5, May 1968

Russian

	Page	Refe	rence
Faraday Effect in the Iron Garnet Y ₃ Fe ₅ O ₁₂ :Ho ³⁺ . (E)	869	53	1508
Magnetic Resonance on Pr ¹⁴¹ Nuclei in a Pr ₂ (SO ₄) ₃ · 8H ₂ O Single rystal. (E)	872	53	151(
phonon Interactics in the CaWO4:Nd System. (E/T) M. M. Zaitov and L. Ya. Shekun Optical Properties of Lead in the Visible and Infrared Spectral Ranges. (E)	676	53	1510
Effect of Isotopic Composition on the Electrical Conductivity of Cadmium. (E)	881	53	152
Chemical Shifts of the $K_{\alpha i}$ Lines and the Valence Structure of Transition Metals of the Fifth and Sixth Period. (E) O.I. Sumbaev, E. V. Petrovich, Yu. P. Smirnov,	888	53	153:
Synchronization of Gallium Arsenide Laser Light Pulses. (E)	891	53	154
Investigation of the Electron State and the Dynamics of Motion of Tin Atoms on the Surface of Silica Gels and Zeolite by Gamma-resonance Spectroscopy. (E)	895	53	155
Cyclotron Resonance in Tungsten. (T)	697	53	155
Quantum Oscillations of the Photoelectric Coefficients of n-type InSt in a Strong Mag-	901	63	156
netic Field. (E)	996	53	157
Stationary and Nonstationary Problems in Quantum Mechanics. That Can Be Solved By	912	53	168
Means of Contour Integration. (T)	916	83 .	158
netic Field. (T) Nonlinear Generation of Higher Harmonics of the Electron-cyclotron Frequency in a	922	85	16(
Current-carrying Plasma. (T)	927	.63	16
Resonance Interaction Between Two Identical Dipole Emitters. (T)	933	63	16:
An Axiomatic Model of Quantum Field Theory. (T)	937.	£ 3.	16
Mechanism of Energy Equilibrium in Nonlinear Ferromagnetic Resonance. (T)	943	123	16
Theory of EPR Line Shape of Impurity Centers in Nonmetallic Crystals. (T)	946	63	16
Nonlinear Theory of Penetration of a High Frequency Field into a Conductor. (T)	952	53	16
On the Theory of Tunnel Transitions in Crystals. (T)	955	63	16
Effect of a High-frequency Magnetic Field on Plasma Instability. (T)	,963	63	16
Solution of the Linearised Energy-gap Equation in Nonhomogeneous Superconductors,	969	68	16
(T)	y71	4	16
P. Grimshelt	974	53	16 200
Annellable Beef The American Traditions of Brender		4	J-PCI

ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI Vol 53, No 5, May 1968

	Page		ssian`. Tence	,
	979	63	1708 -	
	984	53	1717	
Absorption of Ultrasound in Dielectric Crystals with High Impurity Concentrations. (T) L. É. Gurevich and B. I. Shklovskii	989	68 ¹	1726	
	994	. 53 . 53	1735	
Electrical Conductivity of Isotopically Disordered Metals. (T) Yu. Kagan and A. P. Zhernov	999	53	1744 ,	
Periodic l'agnetic Structures and Phase Transitions. (T) Nonlinear Interaction of Waves in the Presence of Two-stream Instability. (T)	1003	. 53	1751	
	1011	53	1765	
Coulomb Collisions of Particles in a Turbulent Plasma. (T)	1017	53	1776	
Enhancement of a Magnetic Field by a Conducting Fluid. (T)	1023	63	1789	
The Gyromagnetic Effect in an Antiferromagnet at Low Temperatures. (T)		<i>.</i>		
Kinetics of Physical Processes in CO ₂ Lasers. (T) B. F. Gordiets, N. N. Sobolev, and L. A. Shelepin	• _	#_ }	1814	
Quantum Theory of Resonance and Relaxation Absorption of Ultrasound in Paramagnetic Crystals. (T)				

Available From The American Institute of Physics Vol. 26, No 5, May 1968

GENERAL CHEMISTRY

of the USSR

A translation of Zhurnal Obshchai Khimii

Volume 37, Number 1

January, 1967

CONTENTS

	Eng	I./Russ.
Geminal Systems. V. Investigation of the System >Sn-CH ₂ -X by Means of Nuclear Gamma Resonance (Mossbauer Effect) - V. V. Khrapov, V. I. Gol'danskii, A. K. Prokof'ev,		
and R. G. Kostyanovskii	1	3
Dissociation of Titanium Tetrachloride Esterates - Yu. A. Lysenko	8	11
É. Yu. Pozhidaeva, and R. E. Dlugach Physicochemical Analysis of Binary Liquid Systems Formed by Chloroacetic Acids with	13	17
Water or Acetic Acid — Yu. Ya. Fialkov and S. N. Kholodnikova Equilibrium of Two Liquid Phases in the System Chloroform—Benzene—Diantipyrylmethane	16	20
Dithiocyanate - K. I. Mochalov, V. P. Zhivopistsev, B. I. Petrov, and T. P. Yakovleva.	21	25
Phase Equilibria in the Dimethyl Terephthalate—Methanol System — G. D. Efremova Interaction of Cresols with Urea and Acetam; de — I. M. Bokhovkin, Yu. I. Bokhovkina, and	24	28
F. O. Vitmar	27	31
-V. F. Chesnokov and I. M. Bokhovkin	31	34
- A. G. Palobekov and A. G. Bergman	35	40
- A. A. Glagoleva	38	43
M. K. Saikina, and M. G. Khakimov	41	47
L. Ya. Malkes, and L. V. Dubina	46	52
Monomers - Z. Yu. Kokoshko, V. G. Kitaeva, Z. V. Pushkareva, and V. S. Blokhin Transformations of Symm. Dimethylethylphenylethynylethyleneglycol under the Influence of	51	58
Sulfuric Acid and Mercury Salts - A. Fabritsy and R. Dobzhenetskaya A Relation between Structure and Properties of Aminoalcohols. III. The Basicity of Esters of Fatty-Aromatic Aminoalcohols - T. I. Ruleva, S. V. Bogatkov, E.M. Cherkasova,	53	60
and T. A. Antonova	58	66
A. N. Makarova, and A. Ya. Berlin	62	70
Synthesis of Acylated Dipeptides of α -Aminoacids – G. A. Maslova and I. T. Strukov	67	76 (Contd)

ZHURNAL OBSHCHEI KHIMII Vol 37, No 1, 1967

	Engl./	Russ.
Chemistry of Polymyxin M. X. Synthesis of Analogs. Preparation of a Screened Hexapeptide — Ezzeldin Mohamed Saad Salem, N. V. Fedoseeva, and A. B. Silaev Catalytic Decomposition of Organic Peroxy Compounds. XIV. Inhibited Catalytic Decomposition of Tertiary Butyl Hydroperoxide in Mixtures of Acetic Acid and Water	69	78
-É. A. Kuzimina, V. A. Shushunov, and M. K. Shchennikova	71	81
Polysaccharides of Feed Yeasts. I. Isolation — A. I. Usov and N. K. Kochetkov	76	86
O. S. Chizhov, and A. I. Usov	81	91
1,4-furanose — Vu. A. Zhdanov, Yu. E. Alekseev, and G. N. Dorofeenko Study of the Solvating Ability of Ethers by the Isotopic Hydrogen Exchange Method. III. Kinetics of Deutero- and Tritioexchange between Fluorene and Indene during Catalysis by Lithium Tert-butylate — V. A. Bessonov, E. A. Yakovleva, F. S. Yakushin, and	86	98
A. I. Shatenshtein	89	101
A. I. Shatenshtein	96	109
Methyl Alcohol - S. M. Shein, V. A. Ignatov, L. A. Kozorez, and L. F. Chervatyuk Reactivity Constants of the SeCF ₃ Group - V. G. Boloshchuk, L. M. Yagupol'skii,	101	
G. P. Syrova, and V. F. Bystrov	105	118
and L. V. Krinitskaya	109	121
and Yu. A. Ol'dekop	115	128
-A. N. Kost, V. M. Potopav, R. S. Sagitullin, and M. A. Yurovskay	121	134
I. Ya. Postovskii	125	139
Anthracenonium Ion Salts - V. A. Koptyug, V. A. Bushmelev, and T. N. Gerasimova Pyrrolizidine Alkaloids. IX. The Total Synthesis of the Alkaloid Trachelanthamine	127	140
- V. N. Kulakov, A. M. Likhosherstov, and N. K. Kochetkov	132	146
Kh. A. Abdulganieva	137	152
and S. V. Sokolov	139	153
Reaction of Trifluoronitrosomethane with Amines. I. Reaction of Trifluoronitrosomethane with Primary Aromatic Amines — S. P. Makarov, A. S. Filatov, and A. Ya. Yakubovich.	144	158
Aromatic Fluorine Derivatives. XXIV. Fluorine-Containing Benzenesulfonyl Fluorides - G. G. Yakobson, V. M. Vlasov, and N. N. Vorozhtsov, Jr	149	163
Aromatic Fluorine Derivatives. XXV. Fluorine-Containing Benzoic Acids - V. M. Vlasov, V. N. Odinokov, R. I. Rudakova, G. G. Yakobson, and N. N. Vorozhtsov, Jr	156	171
Alkali-Metal Fluorides - V. N. Odinokov, G. G. Yakobson, and N. N. Vorozhtsov, Jr	161	176

ZHURNAL OBSHCHEI KHIMII Vol 37, No 1, 1967

	Engl	./Russ.
Polyfluorinated Alkylaromatic Ethers - S. V. Sokolov, L. N. Pushkina, N. I. Gubkina, G. P. Tataurov, and V. F. Kollegov	166	181
P. A. Yufa, and N. S. Barvyn	174	191
- A. A. Zhelnov and G. F. Gavrilin	180	198
and G. F. Gavrilin	182	199
and O. G. Il'enko	184	201
Atmospheric Oxygen - N. S. Vyazankin, T. N. Brevnova, and G. A. Razuvasv Oxidation of Organo-Metallic Compounds. VI. Photo-Initiated Oxidation of Tetraethyl Tin and Tetraethyl Lead by Oxygen - Yu. A. Aleksandrov, B. A. Radbil', and	187	204
V. A. Shushunov	190	208
V. N. Glushakova, and Yu. A. Aleksandrov	195	213
Yu, A. Sangalov	197	216
- S. A. Sarankina, Z, M. Manulkin, and A. B. Kuchkarov	199	217
Z. M. Manulkin Vibrational Spectra and Structure of 1,3-Enynic Germaniohydrocarbons — M. D. Stadnichuk,	201	219
T. V. Yakovleva, and A. A. Petrov	204	223
- V. V. Markova, V. A. Kormer, and A. A. Petrov	208	226
Acetylenic Chlorophosphines – G. M. Bozolyubov and A. A. Petrov	211	229
- L. P. Zhuravleva, G. L. Butova, and M. A. Grinyuk	214	231
and I. F. Lutsenko	216	233
T. M. Ivanova	222	239
and V. T. Inshakova	230	247
ethylsulfonylaminomethyl)silanes – L. K. Maslii and T. P. Razbegaeva	233	250
Synthesis of Organosilicon Amines and Diamines — V. B. Losev Organosilicon Compounds. III. Reaction of Fluoro— and Chlorohydrosilanes with Phenylacetylene — B. A. Sokolov, A. N. Grishko, T. A. Kuznetsova, E. I. Kositsyna,	236	253
and L. V. Zhuk	238	255
Compounds - B. A. Sokolov, A. N. Grishko, T. A. Kusnetsova, and R. G. Sultangareev.	243	260
Ethynylsilanes and Some of Their Transformations — N. V. Komarov and O. G. Yarosh Radiation Chlorination of Phenylmethyldichlorosilane and Phenyltrichlorosilane — M. T. Filippov, R. V. Dzhagatspanyan, G. V. Motsarev, V. R. Rosenberg,	247	264
and V. I. Zetkin	251	267 (Contd)

ZHURNAL OBSHCHEI KHIMII Vol 37, No 1, 1967

	Engl./	/Russ.
Carbofunctional Organosilicon Compounds. I. Difunctional Bis (alkylmethylphenyl)disiloxanes — N. P. Smetankina and L. E. Karbovskaya	255 258	271 275
LETTERS TO THE EDITOR		
Reaction of Levoglucosan with Hypophosphorous Acid, a New Type of Phosphorus- Containing Carbohydrate Derivatives — N. K. Kochemkov, É. E. Nifant'ev, and		
I. P. Gudkova	260	277
S. M. Rozenshtein, and P. O. Gitel'	261	278
R. M. Bistrova, and L. G. Fedosyuk	262	278
Features of the Absorption Spectra of Benzenesulfonyl Chloride - Yu. I. Naumov and V. A. Izmail'skii	263	279
Synthesis of Phthalocyanines of Some Heavy Metals — I. S. Kirin, P. N. Moskalev, and V. Ya. Mishin	265	280
Thermal Rearrangement of the Halogen Atom in Haloneobarenes - L. I. Zakharkin and V. N. Kalinin	266	281

Available From Consultants Bureau

The Russian press date (podpisano k pechati) of this issue was 1/14/67. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

JOURNAL OF

GENERAL CHEMISTRY

of the USSR

A translation of Zhurnal Obshchei Khimii

Volume 37, Number 2

February, 1967

CONTENTS

	Engl.	/Russ.
Effect of Admixture of Bivalent-Metal Halides on the Stability of KCl-NaCl Solid Solutions — A. A. Nazarov	267	285
Interaction in the Ternary Systems Phenol-Naphthalene- α -Naphthol and Phenol-Naphthlene- β -Naphthol — A. G. Palobekov and A. G. Bergman	269	287
System Urea-Phenol-Pyrocatechol — A. G. Palobekov and A. G. Bergman	272	290
I. L. Abarbarchuk	275	293
N. S. Dokunikhin, and V. N. Kolokolov	280	299
 E. N. Kharlamova, E. N. Gur'yanova, and N. A. Slovokhotova Complex Compounds of Metals with Some Nitrogen-Containing Ligands. IV. Copper Complexes of o-(Benzylideneamino)phenol Derivatives A. D. Garnovskii, L. V. Orlova, 		303
O. A. Osipov, and O. A. Raevskii		308
— V. T. Panyushkin, A. D. Garnovskii, O. A. Osipov, A. L. Sinyavin, and A. F. Pozharskii Synthesis and Reactions of Oxygen-Containing Unsaturated Organic and Organosilicon Com- pounds. XXXVIII. Synthesis and Some Reactions of Acetylenic Hydroxy Ethers	292	312
— I. A. Shikhiev, G. F. Askerov, Sh. V. Garaeva, and M. I. Aliev Complex Lipids. Synthesis of $(\alpha, \beta$ -Dipalmitoylphosphatidyl)-N-glycylethanolamine, N-	297	317
Glycylcephalin — S. Ya. Mei'nik, M. A. Miropol'skaya, and G. I. Samokhvalov Structure of the Antibiotic Albomycin. XVII. Synthesis of Hexapeptides (Triornithyldiserylserine Methyl Esters) with the Amino Acid Residues in Various Configurations	299	320
— Ahmed M. el Naggar and N. A. Poddubnaya	302	323
A. M. Khaletskii	307	329
Absorption Spectra — N. V. Bondarenko	310	332
T. A. Pospelova, and A. M. Yurkevich	313	335
nosyl)-D-glucoses — N. K. Kochetkov, A. Ya. Khorlin, and A. F. Bochkov	315	338
Available From Consultants Bureau	(0	iontd)

ZHURNAL OBSHCHEI KHIMII Vol 37, No 2, 1967

	Engl.	/Russ.
ABC Part of 19-Norcorticoids. IV. 7- (Ethylnenedioxy)-1,2,3,4,4 α ,4 $b\alpha$,5,6,7,8,10,10 α -and -1,2,3,4,4 α ,5,6,7,8,9,10,10 α -dodecahydro-1 β ,4 β -Phenanthrenediol Mono-		242
tosylates — K. K. Pivnitskii and I. V. Torgov	320	343
I. V. Torgov	325	348
Simplest Bacteriochlorine — G. D. Egorova, K. N. Solov'ev, and A. M. Shul'ga Coenzyme A. I. Synthesis of D-(+)-Pantethine — E. S. Zhdanovich, V. M. Kopelevich, and		357
N. A. Preobrazhenskii		361
- S. V. Tsukerman, Yu. N. Surov, and V. F. Lavrushin	339	364
Azomethine Bases. X. Effect of Conjugation on the Polarographic Characteristics of Bisazomethine Compounds Derived from Some Mono- and Di-Nuclear Aromatic Diamines		367
 V. N. Dmitrieva, N. I. Mal'tseva, V. D. Bezuglyi, and B. M. Krasovitskii Reaction of Polyhalogenated Ethers with Bromine Fluorides — V. S. Yuminov, L. N. Pushkina, 		372
and S. V. Sokolov		375
A. V. Ivanov	355	380
G. A. Abakum	360	386
Dimethylamine — E. P. Fokin, V. A. Loskutov, and A. V. Konstantinova	365	391
Organosilicon Derivatives of Xylitol — L. A. Nakhapetyan and G. V. Varvanina	369	395
G. P. Bochkareva, and M. A. Golubenko	372	398
A. P. Kryuchkova, and K. S. Krasnoslobodtseva	374	400
silane — V. O. Reikhsfel'd and I. E. Saratov	376	402
D. F. Kutepov, and V. V. Korshak	378	404
I. V. Gur'yanova, and M. G. Zimin	381	407
 A. N. Pudovik, V. K. Khairullin, and M. A. Vasyanina Reactions of Bis-2-chloroethyl Hydrogen Phosphite and Its Derivatives. IV. Reaction of Bis-2-chloroethyl Hydrogen Phosphite with Acetylene S. M. Shner, L. P. Bocharova, and 	385	411
I. K. Rubtsova	390	418
M. G. Berim, R. I. Slepova, Sh. Z. Tuktarova, and G. F. Rzevskaya	393	421
zones and 1,3,4-Oxadiazoles — R. L. Poznyak and A. I. Razumov	396	434
V. V. Dorogov, and L. D. Bergel'son	398	426 Sonta)

ZHURNAL OBSHCHEI KHIMII Vol 37, No 2, 1967

	Engl.	/Russ.
Amino Acid Derivatives.of Uridine 3'(2'),5'-Diphosphate - A. B. Solov'eva, N. N. Preobrazhenskaya, N. I. Sokolova, and Z. A. Shabarova	403	431
Stereochemistry of the Wittig Reaction — L. J. Shubina, L. Ya. Malkes, V. N. Dmitrieva, and V. D. Bezuglyi	408	437
Amides and Anhydrides of Phosphorous Acids. XXI. Reactions of Oxophosphine Oxides with Some Electrophilic and Nucleophilic Reagents — V. P. Evdakov and E. I. Alipova	412	441
Phosphorylated Derivatives of Trifluoroacetic Acid — G. I. Derkach, V. P. Rudavskii, A. A. Kovol', and V. I. Shevchenko	415	445
and Some of Their Properties — V. G. Gruzdev, K. V. Karavanov, S. Z. Ivin, I. S. Mazel', and V. V. Tarasov	419	450
and V. N. Eliseenkov	423	455
- A. N. Pudovik, É. M. Faizullin, and S. V. Yakovleva	428	460
Synthesis of Dinaphthyl Hydrogen Phosphites — I. V. Barinov, V. V. Rodé, and S. R. Rafikov Organophosphorous Compounds with an Active Methyl Group. IV. Reactions of Alkyl Diphenyl	432	464
Phosphites with 2-Bromoacetophonone — A. M. Shakirova and M. G. Imaev Alkylthionophosphine Sulfides. VI. Synthesis of Alkylphosphonodithioic Mixed O.S-Diesters	436	468
- O. N. Grishina and L. M. Bezzubova	438	470
L. F. Irodionova, and A. V. Kirsanov	441	473
Based on Chromotropic Acid — A. M. Lukin, G. B. Zavarikhina, and N. A. Bolotina Reactions of Trichloromethanesulfenyl Chloride with Methylphosphonous and P-Methylphos-	446	478
phonamidous Esters — N. S. Rylyakova, Yu. A. Kondrat'ev, and S. Z. Ivin	451	483
with Alkenylphosphonic Esters — S. Z. Ivin, V. K. Promonenkov, and B. I. Tetel'baum Reactions of Compounds Containing Mobile Halogen. IV. Reactions of Alkanesulfenyl Chlorides	454	486
with Alkenylphosphonic Esters — S. Z. Ivin and V. K. Promonenkov	458	489
Chloride with Aldehydes and Ketones — S. Z. Ivin, K. V. Karavano, and V. V. Lysenko Phosphoroselenothioic Esters. IV. Acylation of Potassium O, G-Dialkyl and O, G-Diaryl Phos-	461	492
phoroselenothicates — N. I. Zemlyanskii, N. M. Chernaya, and V. V. Turkevich Synthesis of Dialkyl 8-Quinolyl Phosphates and Their Derivatives — O. M. Radul,	464	495
L. I. Aristov, and A. A. Shamshurin	466	497
L. I. Barsukov, and L. D. Bergel'son	469	499
Reactions of Alkali Metals with Barenes in Liquid Ammonia — L. I. Zakharkin and L. S. Podvisotskaya	488	506
Reaction of o-Barenylmagnesium Bromide with Carbon Tetrachloride - V. I. Stanko and		
G. A. Anorova	476 477	507 508
Yu. A. Kondrat'ev, and S. Z. Ivin	478	509
- A. V. Kirsasov, L. P. Zhuravleva, M. I. Z'ola, G. L. Butova, and M. G. Saleimanova .	479 (C	510 ontd)
Available From Consultants Bureau	, ,	

The state of the s

ZHURNAL OBSHCHEI KHIMII Vol 37, No 2, 1967

	Engl.	/Russ.
Condensation of Diethyl Acetonylphosphonate with Benzaldehyde and with Cinnamaldehyde		
- A. N. Pudovik, G. E. Yastrebova, and V. I. Nikitina	480	510
New Data on the Chemistry of Acyl Phosphites — É. E. Nifant'ev and I. V. Fursenko Reactions of α, β -Unsaturated Acid Chlorides with Cyclic Alkylene Phosphorochloridites	481	511
— K. I. Novitskii, N. A. Razumova and A. A. Petrov	482	512
I. V. Vereshchinskii	. 483	513
- L. N. Volodina	. 484	513
borates with NaI ¹³¹ — V. I. Stanko, Yu. V. Gol'tyapin, and A. F. Volkov	. 485	514
V. A. Brattsev	. 496	515
lates - A. N. Pudovik, M. A. Pudovik, and L. V. Spirina	. 487	515
Available From Conquitante Bureau		

The Russian press date (podpisano k pechati) of this issue was 2/25/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

JOURNAL OF

GENERAL CHEMISTRY

of the USSR

A translation of Zhurnal Obshchel Khimil

Volume 37, Number 3

March, 1967

	CON	TE	NTS
		Engl.	/Russ.
Influence of Various Physicochemical Factors upon the Equilibrium in the Exchange of Ion in the System Sodium - Potassium - Yu. I. Ignatov and I. G. Muratov		489	521
with Some Aliphatic Ethers — I. I. Lapidus, L. A. Nisel'son, and A. A. Karateeva Liquid-Vapor Equilibrium in Binary Systems of Dioxan with Tri- and Tetrachlorosilane		493	5.25
- I. I. Lapidus, L. A. Nisel'son, and A. A. Karateeva	• • •	499	531
 A. V. Leshchenko and O. A. Osipov. Relation between the Isotherms of a Solution in Ternary Non-mutual Systems for Different Ways of Expressing Concentration. IV. Weight Dolyas (Weight Percents) and Mole Dolyas (Mole Percents). The Relation between Concentrations of a Saturated and Unsaturated Component for One of the Ways of Expressing Concentration Is Linear 	t	501	534
 V. Ya. Anosov Synthetic Research in the Field of Polyene Compounds. XXVII. Oxidation of the 6-Chrom nols of Vitamin K_{2/15} and K_{2/26} with Atmospheric Oxygen — É. I. Kozlov, 	18-	505	539
E. A. Obol'nikova, and G. I. Samokhvalov	 t-	509	544
pounds — V. I. Lodochnikova, E. M. Panov, and K. A. Kocheshkov Some Transformations of Complex Aluminum Acetylides — V. V. Gavrilenko, L. L. Ivan	10V,	512	547
and L. I. Zakharkin	 dn	515	5.30
and A. A. Kazantsev		519	554
Mechanism of the Tishchenko Reaction — L. I. Zakharkin and L. P. Sorokina Reaction of Some Vinylacetylenic and 2,4-Dienic Hetero-Organic Compounds with Hexa- chlorocyclopentadiene — M. F. Shostakovskii, N. V. Komarov, Yu. V. Maroshin,		525	561
F. P. L'vova		531	567
N. N. Chipanina		534	571
- B. V. Tronov, A. A. Zhelnov, and G. F. Gavrilin		539	576
Analogs of 5-Methoxytryptamine — L. A. Shchukina, N. N. Savorov, and A. D. Nekly Synthesis of Some Peptides Related to Oxytocin with the Help of o-Nitrophenylsulfenyl		542	578
Screening - V. F. Martynov, Zh. D. Bespelova, M. I. Titov, and S. I. Shurukhine	ı	547	583 Contd)

ZHURNAL OBSHCHEI KHIMII Vol 37, No 3, 1967

	Engl.	/Russ.
Synthesis of Some Steroid Derivatives of Sarcolysine — M. V. Mukhina and A. M. Khaletskii. Synthesis of Derivatives of the Androstane Series. XIII. Hydrazones of $\Delta^{i,4}$ -17 o- Methylandrostadien-17 β -ol-3-one and of $\Delta^{i,4}$ -Androstadienedione-3,17 and its 16-Oxymethylandrostadienedione-3,17 and its 16-Oxymethylandrostadienedione-3,18 and its 16-Oxymethylandrostadien	551	587
ene and 16-Methyl Derivatives — L. N. Volovel'skii	554	590
- D. A. Godina and G. P. Faerman	560	597
M. F. Lebedeva	563	601
M. F. Lebedeva, M. N. Vasil'eva, and L. L. Martynova	572	611
M. F. Lebedeva	580	620
Yu. M. Kosyrev, I. N. Sorochkin, and V. P. Radchenko	591	633
A. Ya. Berlin	595	637
L. V. Khristenko, and L. M. Smuilovich	601	642
Groups — M. I. Ermakova, L. N. Vorontsova, and N. I. Latosh	607	649
plexes with Copper, Nickel, and Cobalt — G. G. Shulyak and B. I. Stepanov Structure of Antipyrine Compounds and Some Metal Derivatives — V. K. Akimov, A. I. Busev,		653
B. E. Zatisev, and V. P. Zhivopistsev	616	658
- N. S. Dokunikhin, B. V. Salov, and S. A. Plentsova	621	663
Activity — N. F. Levchenko, L. Sh. Afanasiadi, and V. D. Bezuglyi Mechanism of the Decomposition of 3-Arylsydnone Imines in Hydrochloric Acid	624	666
— L. E. Kholodov and V. G. Yashunskii	628	670
V. I. Ermolaev. and V. P. Beketov	630	672
N. I. Gubkina, V. F. Kollegov, and S. V. Sokolov	632	674
and Kh. A. Abdulganieva	640	684
Acid - F. M. Kharrasova, G. Kh. Katai, R. B. Sultanova, and R. R. Shagidullin	643	687
Reactions of Diethyl Chlorophosphine with Derivatives of Dimethylacrylic Acid and Meeityl Oxide — S. Kh. Nurtdinov, V. S. Tsivunin, T. V. Zykova, and G. Kh. Kamai	648	692
Synthesis of Phosphinylacetic Acids — E. N. Tsvetkov, R. A. Malevannaya, and M. I. Kabachnik.	652	695
Synthesis and Thermal Isomerism of Allyl Esters of Phosphonous Acids — A. I. Pudovik, i. M. Aladsheva, and L. V. Spirina	684	700
Reaction of Anhydrides of Dialkylphosphorous and Acetic Acids with Mono- and Dichloro- acetaldehydes — A. N. Pudovik, T. Kh. Gazisov, Yu. Yu. Samitov, and T. V. Zyhova.		706 Contd)

ZHURNAL OBSHCHEI KHIMII Vol 37, No 3, 1967

	Engl.	/Russ.
Reaction of Methyldichlorophosphine with Acrylic Acid - V. K. Khairullin, T. I. Sobchuk, and A. N. Pudovik	666	710
Reaction of Phosphonous Acids with Aldehydes and Ketones. XXXII. Esters of α -Hydroxy- α -diethoxyphosphonoethylbutylphosphonic and α -Hydroxy- α -alkoxyphosphonopropionic	456	
Acids — V. S. Abramov, V. I. Barabanov, and L. I. Long	670	714
Acid — V. S. Abramov and Z. S. Druzhina	674	718
tives — V. F. Toropova, M. K. Saikina, and R. Sh. Aleshov	679	725
A. Ya. Kessel	683	728
phosphorous Acid — R. A. Sabirova and L. V. Nesterov	686	732
- F. Ya. Perveev and R. A. Bogatkin	689	734
and S. I. Sadykh-Zade	694	739
LETTERS TO THE EDITOR Simple Method for Synthesizing Aldehydes of the Barene Series — L. I. Zakharkin and		
A. I. L'vov	696	742
T. G. Soroka	697	743
- B. A. Trofimov, A. S. Atavin, V. I. Lavrov, and M. F. Shostakovakii 4,4-Dichloro-1,2-diphenyl-3,5-dioxopyrazolidine and the Products of Its Sulfonation	698	743
- B. L. Moldaver and A. M. Khaletskii		744
Oxidation of trans- α -Stilbazole with Peracetic Acid — V. I. Pansevich-Kolyada DISCUSSIONS	700	745
The Reaction of Trichlorogermane with Ketones (in Connection with the Paper by T. K. Gar and V. F. Mironovi, - S. P. Kolasnikov and O. M. Nefedov	701	748

Available From Consultants Bureau

The Russian press date (podpisano k pechati) of this issue was 3/23/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

JOURNAL OF

GENERAL CHEMISTRY

of the USSR

A translation of Zhurnal Obshchel Khimil

Volume 37, Number 4

April, 1967

CONTENTS

COR) ; Er	113
	Engl./	Russ.
Phase Equilibria of the System $HCl-H_2O-C_5H_{11}OH-M$. V. Ionin and P. I. Shanina Physicochemical Analysis of Binary Liquid Systems Formed by Amines. III. Piperidine—	703	749
Amine Systems - Yu. Ya. Fialkov and O. V. Chviruk	708	754
Salts of Alkenyl Hydrogen Carbonates. I — V. I. Kurov	712	758
Salts of Alkenyl Hydrogen Carbonates. II — V. I. Kurov and V. I. Danevich Addition of Benzenesclenol to 1,3-Dienes — F. G. Gabdrakhmanov, Yu. Yu. Samitov, and	714	760
E. G. Kataev	715	761
M. K. Romantsevich	720	766
P. N. Pushnina, and M. L. Genusov	722	768
and F. G. Gabdrakhmanov	725	772
— N. I. Zemlyanskii and L. V. Glushkova	728	775
N. A. Sobina, N. S. Dokunikhin, and N. B. Kolokolov	730	778
R. G. Chirkova, and E. Yu. Orlova	735	783
IR Spectra of 1-Arylquinaldinium Salts — G. T. Pilyugin and A. P. Rud'ko Synthesis and Properties of Macrocycles. II. Electronic Absorption Spectra of Internal-	738	786
Complex Saits of Macroheterocyclic Compounds — R. P. Smirnov and B. D. Beresin Polysaccharides of Algae. I. Water-Soluble Polysaccharides of the Red Alga Laingia pacifica.	740	789
- N. K. Kochetkov, A. I. Usov, and L. I. Miroshnikova	743	792
N. N. Suvorov	747	797
N. M. Émamiél'	751	801
A. D. Dembitskii, and M. I. Gorysev		ees ontd)

1

	Engl./	Russ.
Polyfluoro Aromatic Compounds Containing Cytotoxic Groups - F. 1. Abezgauz and		
S. V. Sokolov	759	809
Synthesis of Some Potential Antisumor Preparations — V. G. Nemets, V. I. Rybakova, and		
E. G. Sochilin	764	814
2-Acetamido-N, N-bis-2-chloroalkyl-3-phenylpropionamides — V. G. Nemets, G. G. Blinova,		
and T. D. Zhilinskaya	767	817
Structure of the Antibiotic Albomycin. XVIII. Copper Complexes of Hexapeptides with Serine		
and Ornithine Residues in Different Sequences and Configurations - N. A. Poddubnaya		
and Ahmed M. el Naggar	769	819
Oxidation of β -Sitosterol with Hydrogen Peroxide — M. V. Mukhina and A. M. Khaletskii	776	826
Organic Insectofungicides. Reactions of N, N-Dialkyl- P-methylphosphonamidic Chlorides		
with Amines and Hydrazines - A. F. Grapov, L. V. Razvodovskaya, and		
N. N. Mel'nikov	778	828
Reactivity of Tetrafluoro-1-nitro-2-nitrosoethane. III. Reaction with Butadiene		
- A. V. Fokin, A. T. Uzun, and O. V. Dement'eva	781	831
Reactivity of Tetrafluoro-1-nitro-2-nitrosoethane. IV. Reaction with Hexafluorobutadiene		
- A. V. Fokin, A. T. Uzun, and O. V. Dement'eva	784	834
Reactions of Trifluoronitrosomethane with Amines. II. Reactions with Aliphatic Amines -	= -=	
Fluorinated Azo Compounds - A. S. Filatov, S. P. Makarov, and A. Ya. Yakubovich .	787	837
Direct Fluoroalkenylation. IV. Kinetics of the Hydrolysis of 1-Fluoro- and 1-Bromo-	700	040
vinylamines — A. Ya. Yakubovich and A. P. Sergeev	792	842
I. N. Belyaeva, P. O. Gitel', V. V. Smolyanitskaya, and L. V. Sankina	797	847
c-(Dichloroamino) Nitriles — A. M. Pinchuk, L. N. Markovskii, E. S. Levchenko, and	191	011
V. I. Shevchenko	802	852
(1-Cyanocalkyl)- and (1-Cyanocycloalkyl)-phosphorimidic Trichlorides - A. M. Pinchuk,	002	002
I. M. Kosinskaya, and V. I. Shevchenko	805	856
Addition of Nucleophilic Reagents to Dialkyl (3-Methyl-1, 2-butadienyl)phosphonates		
- A. N. Pudovik, N. G. Khusainova, and T. A. Abdulina	809	860
Reactions of Methyl- and Ethyl-phosphonous Dichlorides with 2,3-Butanedione		
- A. N. Pudovik, V. K. Khairullin, Yu. Yu. Samitov, and R. R. Shagidullin	814	865
Reactions of Phenylphosphonous Dichloride with Methacrylic and Propiolic Acids		
- V. K. Khairullin, V. N. Eliseenkov, and A. N. Pudovik	820	871
Reactions of Acid Ethylphosphonous and Phosphorothious Esters with a-Carbonyl Phosphonic		
Esters and 2,3-Butanedione - A. N. Pudovik, I. V. Gur'yanova, L. V. Banderova,		
and M. G. Zimin	825	876
Cyclic Alkyl Substituted-Vinylene Phosphates from the Reactions of Dialkyl Phosphoro-		
chloridites with α -Diketones — I. P. Gozman and V. A. Kukhtin	831	881
Ethylene Oxide as Hydrogen Chloride Acceptor in the Synthesis of Dialkyl Hydrogen Phos-		
phites and Alkyl Hydrogen Alkyl- and Aryl-phosphonites — N. K. Bliznyuk,		
Z. N. Kvasha, P. S. Khokhlov, and A. F. Kolomiets	834	884
Ethylene Oxide as Hydrogen Chloride Acceptor in the Synthesis of Phosphorous Triesters		
and Phosphonous Diesters - N. K. Bliznyuk, Z. N. Kvasha, and A. F. Kolomiets	838	888
Direct Synthesis of Alkyl- and Aryl-phosphonous Dichlorides and Dibromides		
- N. K. Bliznyuk, 2. N. Kvasha, and A. F. Kolomiets	840	890
Photochemical Chlorination of Alkylphosphorimidic Trichloride Dimers and Their Fluorina-		
tion with Metal Fluorides - B. S. Drach and I. N. Zhmurova	843	892
Reactions of Phosphorus Pentachloride with α-Acyl Amines — I, N. Zhmurova and	048	896
A. P. Martynyuk	845	050
- E. K. Shlenkova and V. P. Evdakov	248 -	_ 202 .
m. 124 outstanding and as as mandada () , ,) , , , , , , , , , , , , , , ,	740(CONTA)

ZHURNAL OBSHCHRI KHIMII Vol 37, No 4, 1967

	Engl./	Russ.
Synthesis of Arylphosphonous Dichlorides - F. M. Kharrasova, Gil'm Kamai,		
R. B. Sultanov, and G. I. Matveeva	852	902
V. V. Kormachev, L. N. Krutskii, and G. Kh. Kamai	854	903
Esterification of Arsonic and Arsinic Acids - G. S. Levskaya and A. F. Kolomiets		905
Reactions of Silicic and Germ: Acids with Hydroxides of Alkali and Alkaline Earth Metals Investigated by the Chronoconductometric Method — A. P. Kreshkov, T. A. Khudyakova,		
and R. S. Borisova		907
Coordinate Links in Boropolysiloxanes — V. O. Reikhsfel'd and D. A. Khankhodzhaeva Mass-Spectral Investigation of Sila-Hydrocarbons Containing Two Silicon Atoms Separated by Methylene Groups — N. Ya. Chernyak, R. A. Khmel'nitskii, T. V. D'yakova,		915
K. S. Pushchevaya, and V. M. Vdovin	867	917
M. G. Pomerantseva, S. A. Golubtsov, and K. K. Popkov		922
T. K. Dzhashiashvili, V. V. Astakhin, and G. N. Shumakova	878	928
Chlorodimethyl-(3,3,3-trifluoropropyl)silanes — M. A. Kadina and V. A. Ponomarenko.	880	930
Reaction of Ferrocene with Mercury Salts — S. I. Zhdanov and A. A. Pozdeeva	884	934
— E. M. Panov, L. F. Rybakova, and K. A. Kocheshkov		936
1-Phenylneobarene — L. I. Zakharkin and V. N. Kalinin		939
- D. A. Godina and G. P. Faerman	894	945
α -Halo Acetylenes — V. S. Zavgorodnii, B. I. Ionin, and A. A. Petrov Reactivity of Some Organotin Vinyl Ethers and Acetals — V. M. Vlasov, R. G. Mirskov, and	898	949
V. N. Petrova	902	954
Products of the Reactions of Methylphosphonous Difluoride with Primary Amines		
— G. I. Drozd, S. Z. Ivin, V. V. Sheluchenko, and B. I. Tetel'baum	905	957
V. V. Sheluchenko, and B. I. Tetel'baum	906	958
Aziridides of Phosphorus Seleno Acids - I. A. Nuretdinov, N. A. Buina, and N. P. Grechkin	907	959
Synthesis of Triallylphosphine Oxide — A. V. Kirsanov and G. K. Fedorova	908	959
- A. V. Bogat-skii, Yu. Yu. Samitov, and A. A. Kolesnik	909	960
Synthesis of Phosphorylated m-Dioxanes — A. I. Razumov, P. A. Gurevich, and V. V. Moskva. Reactions of Trichlorogermane with Acrylic Acid and Its Derivatives — V. F. Mironov,		961
E. M. Berliner, and T. K. Gar		962
the Phosphoranylideneamino Group in Conjugation — T. G. Édel'man and B. I. Stepanov. Substitution Sequence in the Exchange Halogenation of Barenes and Neobarenes with Poly-		963
halomethanes — L. I. Zakharkin and V. N. Kalimin	914	964

The Russian press date (podpisano k pechati) of this issue was 4/8/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

JOURNAL OF GENERAL CHEMISTRY

of the USSR

A translation of Zhurnal Obshchel Khimil

Volume 37, Number 5

May, 1967

CONTENTS

	Engl.	/Russ.
Physicochemical Study of the CH ₃ CONH ₂ System in Dichloroethane as Solvent — E. Ya. Gorenbein and A. E. Gorenbein	915	969
Polarographic Study of 1-Hydroxyisoindolines — N. P. Shimanskaya, L. A. Pavlova, and V. D. Bezuglyi	920	974
- Ya. P. Stradyn', I. Ya. Kravis, and N. O. Saldabol	923	977
Polarography of Halogeno-Organic Compounds. IV. On the Mechanism of the Electroreduction of Hexachlorobutadiene — L. G. Feoktistov, A. S. Solonar', and Yu. S. Lyalikov. The Polarography of Halogeno-Organic Compounds. V. The Reduction of Octachlorocyclopentene and Hexachlorocyclopentadiene and the Formation of the Pentachlorocyclopentadiene.	928	983
pentadienyl-Anion — L. G. Feol:tistov and A. S. Solonar'	931	986
V. V. Gavrilenko, and L. L. Ivanov	937	992
N. A. Khrenova, and S. N. Danilov	942	997
Synthesis of Regular Polypertides Containing L-Ornithine — V. D. Davydov and V. G. Debabov. The Resolution of $dl - \beta - (8 - Caffeinyl) - \alpha - alanine and dl - \beta - (8 - Theobrominyl) - \alpha - alanine into$	945	1000
Optical Isomers - R. G. Vdovina, A. V. Karpova, and E. S. Chaman	951	1007
 A. M. Likhosherstov, B. N. Kulakov, and N. K. Kochetkov From the Field of Organic Insectofungicides. CXI. A Study of the Structure of P-Substituted Phosphonium Phosphorothicates and Phosphorodithicates by Paper Electrophoresis 	956	1012
— V. V. Voronkova, N. N. Tuturina, B. A. Khaskin, and N. N. Mel'nikov From the Field of Organic Insectofungicides. CXII. A Study of the Structure of Hexasikyltriaminoalkylphosphonium and Dialkylaminotrialkylphosphonium Phosphorothicates and Phosphorodithicates by Means of Paper Electrophoresis — N. N. Mel'nikov.	961	1017
V. V. Voronkova, B. A. Khaskin, and N. B. Petruchenko	967	1024
chlorides — L. M. Litvinenko, A. F. Popov, and T. V. Slyusarskaya bis(Triethylstannyl) sulfide and Related Compounds. II, Unsymmetrical Di- and Tribetero-	972	1028
organic Compounds — N. S. Vyasankin, M. N. Bochkarev, and L. P. Sanina Unsaturated Fluoroalkylgermanes — M. A. Kadina, V. A. Ponomarenko, A. V. Kessenikh,	980	1037
and E. P. Prokof'ev	984	1040
Z. M. Manulkin, and A. B. Kuchkarev	989	1046
Production of bis (β, β-dichlorotrifluoroethyl) Ether - V. S. Yuminov and S. V. Sokolov		1048 Contd)
Available From Consultants Bureau		

ZHURNAL OBSHCHEI KHIMII Vol 37, No 5, 1967

	Engl.	/Huse.
Relationship between the Structure and UV and IR Spectra of Substituted Esters, Amides, and Hydrazides of Carbonic Acid — E. P. Nesynov and P. S. Pel'kis	994	1051
of the Absorption Spectra of Derivatives of N-1-2',4'-Dinitrophenyl-N-2-phenyl- ethylenediamine — E. E. Milliaresi, V. A. Izmail'skii, and V. V. Efremov	999	1055
and A. M. Khaletskii	1006	1063
- I. S. Kirin, P. N. Moskalev, and V. Ya. Mishin	1009	1065
V. T. Panyushkin, A. D. Garnovskii, and O. A. Osinov Electron Transfer in Reactions of Nitroso Compounds. VI. Conjugate Reactions of Trifluoronitrosomethane, Phosphorus Trichloride, and Polyfluoroolefins — V. A. Ginsburg,	1012	1069
L. L. Martynova, M. F. Lebedeva, S. S. Dubov, A. N. Medvedev, and B. I. Tetel'baum. Electron Transfer in Reactions of Nitroso Compounds. VII. Conjugate Reactions of Tri- fluoronitrosomethane with Nitrosyl Chloride and Polyfluoroolefins — V. A. Ginsburg.	1016	1073
L. L. Martynova, M. F. Lebedeva, B. I. Tetel'baum, and A. N. Medvedev	1020	1077
and M. N. Vasil'eva	1026	1083
I. V. Gur'yanova, and S. P. Percvezentseva	1033	1090
Phosphite — Yu. A. Kondrat'ev, Yu. K. Knobel', and S. Z. Ivin	1037	1094
 V. V. Lysenko, S. Z. Ivin, K. V. Karavanov, and V. V. Fedotova Alkoxy Compounds XXVI. The Synthesis and Certain Questions on the Stereochemistry of Alkoxyalkyl Substituted 1,3,2-Dioxaphosphorinanes A. V. Bogat-skii, 	1040	1096
A. A. Kolesnik, Yu. Yu. Samitov, and T. D. Butova	1048	1105
and A. A. Koval'	1053	1111
N. K. Bliznyuk, P. S. Khokhlov, R. V. Strel'tsov, Z. N. Kvasha, and A. F. Kolomiets. New Syntheses of Phosphates and Phosphinates. III. Acrylonitrile as an Acceptor of Hydrogen Chloride in the Synthesis of Chloride Esters of Acids of Pentavalent Phosphorus	1061	1119
- N. K. Bliznyuk, P. S. Khokhlov, R. V. Strel'tsov, and G. V. Dotsev	1064	1122
nitrosoalkanes - I. V. Martynov, Yu. L. Kruglyak, and N. F. Privezentseva	1068	1125
- I. V. Martynov, Yu. L. Kruglyak, and N. F. Privezentseva	1072	1130
with Trialkyl Phosphites — I. V. Martynov and Yu. L. Kruglyak	1074	1132
Alkylcarbonic Acids - É. E. Mifant'ev and I. V. Fursenko	1076	1134
Chiorophosphonopropionic Acids — N. A. Razumova, K. I. Novitskii, and M. V. Kivi Heterocyclic Dithiophosphates. I. Heterocyclic Chlorothiophosphates — N. I. Zemlyanskii	1078	1136
and V. P. Kalashnikov	1083	1141 (ontd

Vol 37, No 5, 1967

	Engl	./Russ
Fluoroisothiocyanatothiophosphoric Acids - Zh. M. Ivanova, E. A. Stukalo,		
and G. I. Derkach	1086	1144
V. F. Gamaleya, and G. I. Derkach	1088	1147
N. V. Komarov, and N. N. Vlasova	1092	1151
Trimethylethoxymethane — M. G. Voronkov and L. A. Zhagata	1096	1156
- G. A. Shvekhgeimer and A. P. Kryuchkova	1100	1160
 V. A. Tartakovskii, G. A. Shvekhgeimer, N. I. Sobtsova, and S. S. Novikov Synthesis of bis (Triethylstannyl) sulfide and Related Compounds III. Infrared Spectra of Some Bi- and Trimetalloorganic Compounds A. N. Egorochkin, N. S. Vyazankin, 	1103	1163
M. N. Bochkarev, and S. Ya. Khorshev	1105	1165
and L. A. Shchukina	1108	1169
- T. D. Petrova, T. I. Savchenko, and G. G. Yakobson	1110	1170
E, A. Krasil'nikova, A. A. Potapov, and O. I. Korol'	1112	1171
Quasiphosphonium Borotetraphenylides — L. V. Nesterov and A. Ya. Kessel' Thermal Transformation of Amido Esters of Methylphosphonic Acid — L. F. Tomchina.	1113	1171
P. M. Zavlin, and V. V. Razumovskii	1114	1172
- A. N. Pudovick, I. M. Aladzheva, and V. G. Kotova	1115	1173
E. A. Krasil'nikova, A. M. Potapov, and A. I Rasumov	1116	1173
DISCUSSION Spin-Spin Coupling in Nuclear Magnetic Resonance Spectra of Organophosphorus Compounds		
- B. I. Ionin, V. B. Lebedev, and A. A. Petrov	1117	1174
Available From Consultants Bureau		

The Russian press data (podpisano k pechati) of this issue was 4/29/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

JOURNAL OF GENERAL CHEMISTRY

of the USSR

A translation of Zhurnel Obehchel Khimii

Volume 37, Number 6

June, 1967

CONTENTS

		N 1 9
	Engl.	/Russ.
Strengths of the Aprotic Acid Mercuric Halides in Alcohols and Esters — V. I. Dulova, N. V. Lichkova, and L. P. Ivleva	1121	1181
Relation of the Physical Properties and Reactivities of Substituted Methanes to Their Structures. I. Energy of Molecules — Yu. G. Papulov	1123	1183
Relation of the Physical Properties and Reactivities of Substituted Methanes to Their Structures. II. Energies of Free Radicals, Bond Energies, and Reactivity—Yu.G. Papulov Structures and Reactivities of Nitrogen—Containing Derivatives of Carbonyl Compounds.	1130	1191
XXI. Polarographic Behavior of Nitrophenylhydrazines — Yu. P. Kitaev and I. M. Skrebkova	1137	1198
XXII. Polarographic Behavior of Nitrophenylhydrazones — Yu. P. Kitaev and I. M. Skrebkova	1142	1204
Bivalent-Metal Dialkyl Dicarbonates — V. I. Kurov and T. S. Tsurkan		
- L. I. Zakharkin and A. V. Kazantsev	1149	1211
and A. I. Is vov	1154	1217
Ammonia and Amines — I. V. Martynov and Yu. L. Kruglyak	1158	1221
Arylcarbenes from Aryl-Substituted Di- and Tri-chloromethanes and Lithium - O. M. Nefedov and V. I. Shiryaev	1160	1223
Halofurans. II. Electrochemical Fluorination of 3-Substituted Tetrahydrofurans — N. A. Ryabinin, I. P. Kolenko, and B. N. Lundin	1166	1229
 α,ω-Substituted Alkanes of Possible Biological Importance. VII. Synthesis of ω-Amino-4'- fluoroalkanophenones — V. M. Solov'ev, N. E. Kurochkina, and A. P. Skoldinov 	1169	1233
Free-Radical Chlorination of α-Amino Acids — H. B. F. Dixon, M. Ya. Karpeiskii, S. V. Shlyapnikov, V. S. Oseledchik, and K. F. Turchin	1173	1237
Imidasolinones. II. Reactions of 3,4-Dimethoxybensimidic Ester with α-Amino Acids — I. Kh. Fel'dman, Yu. Ya. Usaevich, st.d E. I. Boksiner	1181	1246
Acid Isomerization of 2-Carene — I. I. Bardyshev, Eh. F. Lotko, and V. I. Kulikov Synthesis of Derivatives of the Androstane Series. XIV. Synthesis of 1,2-Didshydrotestolo-		
lactone and its Derivatives — L. N. Volovel'skii, G. V. Knorosova, and M. Ya. Yakovieva Synthesis of Derivatives of the Androstane Series, XV, Hydrasones of Testololactone and its	1100	1262
Derivatives — L. N. Volovel'skii	1192	1207
lactone and its Derivatives — A. M. Yurkevich, S. G. Verealkine, M. S. Dolgith, and N. A. Preobrazhenskii	1001	1267
		(Contd)
		/ ********

	Engl	/Pulip
Synthesis of Trisaccharides by the Ortho Ester Method - N. K. Kochetkov, A. Ya. Khorlin,		
A. F. Bochkov, L. B. Demushkina, and J. O. Zolotukhin	1206	1272
1. N. Rozhkov, A. M. Aleksandrov, and L. M. Yagupol'skii	1210	1277
Products of the Electrochemical Fluorination of Methyl 3-Methoxypropionate - R. A. Dzerzhinskava, V. I. Tsimbalist, and V. Ya. Kazakov	1214	1282
Aromatic Nucleophilic Substitution. IX. Preparation of and Intramolecular Nucleophilic Substitution Reactions of Fluorinated Derivatives of Diphenylamine, Diphenyl Sulfide,		
and Diphenyl Ether - G.G. Yakobson, G.G. Furin, L.S. Kobrina, and N. N. Vorozhtsov, Jr.	1217	1285
Aromatic Nucleophilic Substitution. X. Reaction of Pentafluoronitrobenzene with Penta- fluorobenzenethiol — G.G. Yakobson, G.G. Furin, L.S. Kobrina, and N. N. Vorozhtsov, Jr.	1221	1289
Polyfluoro Triarylmethanes and Their Derivatives. I. Synthesis of Polyfluoro Triarylmethanes — N. N. Vorozhtsov, Jr., V. A. Barkhash, T. N. Gerasimova, É. G. Lokshina,		
and N. G. Ivanova	1225	1293
Polyfluoro Triarylmethanes and Their Derivatives. II. Reactions of Trispentafluoromethylmethanol with Acids — T. N. Gerasimova, É. G. Lokshina, V. A. Barkhash, and		
N. N. Vorozhtsov, Jr	1228	1296
Polyfluoro Triarylmethanes and Their Derivatives. III. Reactions of Polyfluoro Polyarylmethanols and Polyfluoro Triarylmethanes with Ammonia — T. N. Gerasimova,		
É. G. Lokshina, V. A. Barkhash, and N. N. Vorozhtsov, Jr	1232	1300
phonic Dichloride Prepared by the Reaction of Isoprene with PCl, L. N. Mashlyakovskii,	1 007	1307
B. I. Ionin, I. S. Okhrimenko, and A. A. Petrov	1401	1301
O,S-Dialkyl Phosphorothioates - L. N. Matyuk, K. D. Shvetsova-Shilovskaya, and		
N. N. Mel'nikov	1243	1314
Reactions of Esters, Mixed Anhydrides, and Ester Amides of Phosphorous Acid with Mesoxalic Esters — A. N. Pudovik, I. V. Gur'yanova, S. P. Perevesentseva, and T. V. Zykova	1246	1317
Reactions of O,O-Dialkyl Hydrogen Phosphorodithioates with Acylphosphonic Esters and		
Mesoxalic Ester - A. N. Pudovik and R. A. Cherkasov	1252	1324
Derivatives of 1-Aikenylphosphonous Acids. I. Styrylphosphonous Diesters — Ya. A. Levin and V. S. Galeev	1255	1327
Derivatives of (Alkoxycarbonylmethyl)phosphonous and bis(Alkoxycarbonylmethyl) phos-		2021
phinous Acids — I. F. Lutsenko, Z. S. Novikova, L. Ya. Barinova, and M. V. Proskuraina	. 1258	1330
Rearrangement of Phosphoramidous Esters in Reactions with Carbonyl Compounds. X. Ac-		
tion of a-Halo Carbonyl Compounds on Cyclic Propylene Dialkylphosphoramidites — V. S. Abramov, Z. S. Druzhina, and T. V. Zykova	1260	1332
Pentacovalent Phosphorus Compounds. III. Reactions of Alkyl- and Aryl-tetrafluorophos- phoranes with Thiols and Thiolates — S. Z. Ivin, K. V. Karavanov, V. V. Lysenko, and		
I. D. Shelakova.	1363	1341
Aikyi- and Aryi-phosphonous Diffuorides — G. I. Drozd, S. Z. Ivin, V. V. Shekuchenko, B. I. Tetel'beum, G. M. Luganskii, and A. D. Varshavskii		1343
Synthesis and Properties of Diethyl and Dibensyl Imidasol-1-ylphosphonates-L. N. Nikolenko		
and E. V. Degterev		1350
P. S. Khokhlov, and S. G. Ehemchushin.	1279	1353
Synthesis of Alkyl and Aryl 2,2 Biphenylylene Phosphites — L. V. Verishnikov and P. A. Kirpichnikov	1201	1355
Phosphorylation of Acetonitrile Homologs - V. I. Shevchenko, E. E. Nishaikova,		
N. D. Bodnarchuk, and P. P. Kormin.	1394	1368
((Arylamino)chloromethylenejphosphoramidic Diffuorides and Chloride Fluorides — G. L. Derkach and A. V. Narbut	1200	1304
	((Contd
Available From Consultants Bureau		

CONTRACT SECTION OF THE CONTRACT OF THE CONTRA

	Engl.	Russ
Synthesis of Alkyl- and Cycloalkyl-phosphonous Dichlorides and Their Conversion into		
Other Phosphonous Derivatives — É. E. Nifant'sv and M. P. Koroteev Unsaturated Organositicon Compounds. Addition of Thiols to 1,3-Alkadiyayisilanes	1 203	1366
- B. G. Shakhovskoi and A. A. Petrov	1 204	1371
Dipole Moments and Structure of 1,3-Alkadiynylsilanes - B. G. Shakhovskoi, K. S. Mingaleva,		
M. D. Stadnichuk, and A. A. Petrov	1305	1378
Carbofunctional Organosilicon Compounds. II. Synthesis of ω-Silylaikyl Isocyanates — N. P. Smetankina and N. I. Mirvan	1309	1383
Synthesis and Some Properties of Alkyl (or Aryl) (polyfluoroalkoxy) silenes — A. Ya. Yakubovich,	1909	1363
E. L. Zaitseva, T. V. Rozantseva, Yu. A. Aleksandrova, and A. N. Pravednikov Nitrogen-Containing Organosilicon Compounds. I. Reactions of Silazanes with Amino Alco-	1313	1385
hols – É. Ya. Lukevits	1317	1390
Nitrogen-Containing Organosilicon Compounds. II. 2-{(Silylalkyl)amino]ethanols and Their		
Derivatives — É. Ya. Lukevits, A. E. Pestunovich, and M. G. Voronkov	1320	1392
and Gil'm Kamai	1324	1396
Some Dialkylethynylarsines - K. I. Kuz'min and L. A. Pavlova	1328	1399
Synthesis and Properties of 4,6-Dimethyl- and 4-Methyl-2-pyrimidinyl Esters of Some Thio		
Acids of Arsenic and Antimony — N. A. Chadaeva, G. Kh. Kamai, and K. A. Mamakov .	1331	1402
LETTERS TO THE EDITOR		
Performance of the Grignard Reaction in an Ether-Free Medium at Room Temperature		1.40
- V. V. Pozdeev and N. V. Fomina	1336	1407
Group I — Yu. A. Zhdanov and V. G. Alekseeva		1408
Preparation of Hydrogen Phthalocyanine — I. S. Kirin and P. N. Moskalev	1338	1409
- E. A. Krasil'nikova, A. M. Potapov, and A. I. Razumov	1339	1409
Condensation of Alkylene Phosphorofluoridites with 1,3-Alkadienes — A. A. Petrov,	1940	1410
N. A. Razumova, and Zh. L. Evtikhov	1940	1410
and D. Sh. Ioramashvili	1361	1411
Synthesis of Trialkylcyclotrisilthianes - V. O. Reikhsfel'd and E. P. Lebedev		1413
Synthesis of Trifluoro- and 1-Chlorodifluoro-methylenimines - V. A. Ginsburg and		
K. N. Smirnov	1344	1413
Available From Consultants Bureau		

The Russian press date (podpisano k pechati) of this issue was 5/31/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

GENERAL CHEMISTRY

of the USSK

A translation of Zhurnel Obehchel Khimit

Volume 37, Number 7

July, 1967

CONTENTS

CL		W 1 9
	Engl.	./Russ.
Alexander Ivanovich Razumov (For His Seventieth Birthday and Forty-fifth Year of Scientific and Pedagogical Activity) — G. Kh. Kamai, P. A. Kurnichaikov, and		
B. G. Liorber		1417
É. I. Pochtakova	. 1348	1420
- E. Ya. Gorenbein and A. K. Trofimchuk	. 1350	1422
and I. M. Bokhovkin	. 1355	1428
Electrolyte of Buffer Solutions — V. D. Bezuglyi, L. Ya. Kheifets, and N. A. Sobina The Investigation of the Structure and Reaction Capability of Nitrogen-Containing Derivative of Carbonyl Compounds. XXIII. On the Mechanism of the Polarographic Reduction of Some Azomethine Compounds — Yu. P. Kitaev, G. K. Budnikov, T. V. Troepol'skaya,	•	
and I. M. Skrebkova		
2,3 — V. I. Serkova, E. A. Basina, and É. D. Venus-Danilova	-	1444
and V. A. Koptyug		1448
G. A. Kazenova, and N. A. Preobrazhenskii		1454
cose — S. G. Verenikina, A. M. Yurkevich, and N. A. Preobrazhenskii	. 1382	1458
M. M. Botvinik	•	1463
A. P. Terent'ev	. 1391)	1467
R. A. Gracheva, V. T. Besruckho, and O. G. Poltava		1473
Basic Media — P. S. Shantarovich, V. D. Larionova, and Yu. V. Kisein		1476
	((Contd)
Available From Consultants Bureau		

	<u> </u>	经分布额
The Synthesis of Esters and Amides of Ayrow myon ways	A seed him. Worder, was to a fire addition.	
with Alkyl Borates - V. V. Gertsev		1491
Camiyaia of Hydrogen Transfer by Methods Presumably Stuti		
Reactions of Dikydronicotineamide-adenine Disucleotide	• • • • • • • • • • • • • • • • • • • •	
of the Substrate M. L. Khidekel', A. S. Astakhova, M.		
G. I. Kozub, P. A. Kaikaris, and Yu. A. Shvetsov		1493
Catalysis of the Transfer of Hydrogen by Methods Presumably	· · · · · · · · · · · · · · · · · · ·	
II. The Reactions of Dihydronicotinamide-aderine Dime		
the Catalytic Network — D. D. Mozzhukhin, M. L. Khide E. N. Sal'nikova, and A. S. Astakhova,		1404
Catalysis of the Transfer of Hydrogen by Methods Presumably		1757
III. The Reactions of Models of the Coenzyme Dihydroni	. •	
tide. The Effectiveness of Flavins, Quinones, and Simil		
- S. N. Zelenin, M. L. Khidekel', D. D. Mozzhukhin, E.		1500
Nucleotides, Coenzymes, Phosphate Esters. XVII. Synthesis		
Their Phosphorylation - L. M. Mel'nikova and V. M. B	•	1507
Nucleotides, Coenzymes, Phosphate Esters. XVIII. A New Me		
amide Mononucleotide - V. M. Berezovskii, L. M. Mel'	•	1511
Thermal and Photolytic Decomposition of Organo-Indium Con	npounds — G. A. Razuvaev,	
G. G. Petukhov, V. I. Shcherbakova, O. N. Druzhkov, and		1516
The Reaction of Organometallic Compounds with Peroxides.		
magnesium with Tert-butyl Peroxide — Yu. N. Baryshn	•	
V. A. Shushunov		1520
The Reaction of Chalcones with Trichloroacetic Acid VI - N.		
and V. F. Lavrushin	Description and Contain Other	1526
The Reactions of bis (Trifluoromethyl nitroxids. I. Photolysis Reactions — S. P. Makarov, A. F. Vidsiko, V. A. Toboli		1528
The Synthesis of Polyfluoroalkoxyperhalophenyl Ethers of Eth	ulene Glucol and Their Evalue	1080
tion as Stationary Phases for Gas Chromatography — L	N. Pushkina, V. F. Kollegov.	
N. I. Gubkina, and S. V. Sokolov		1531
Aromatic Fluorine Derivatives. XXVII. Reaction of Pentahalo	ogenated Phenois with Nitrating	
Agents - V. D. Shteingarts, A. G. Budnik, G. G. Yakobe		1537
Aryl Trifluoromethyl Selenides and Aryl Trifluoromethyl Sele	anoxides — L. M. Yagupol'skii	
and V. G. Voloshchuk		1543
Reactions of bis (Triethylatannyl) Sulfide and Related Compoun	ds with Acyl Peroxides	
- N. S. Vyazankin, M. N. Bochkarev, and L. P. Sanina		1545
Unsaturated Stannohydrocarbons. VII. Unsaturated Trialkyls	immylacetylenes	
- V. S. Zavgorodnii, L. G. Sharanina, and A. A. Petrov		1548
Investigation in the Field of the Chemistry of Organic or-Oxid	Me. A.V. Reaction of its	
ethyl- and Triphenylgermanes with Unsaturated α-Oxid V. M. Al'bitskaya	po — A. V. Eryakovekzyk aku 1474	1553
The IR Spectra and the Hydrogen Bonding of Methylcyclohexa	none Derovides—V. A. Tarent'ev.	1000
A, F, Nesterov, and V. L. Antonovskii		1558
A Study of the Reaction of Aryl-Substituted Ethylenes with Di	halocarbenes — O. M. Nefedov	
and R. N. Shafran		1561
Metal Complexes of Nitrogen-Containing Ligands. VII. TiCle	and SnCl4 Complexes of Dialityl-	
aminoethylquinolines and Pyridines - V. T. Panyushkis	ı, E.Sh.Kagas, A.D.Gernovskii,	
O. A. Osipov, and I. M. Semenova		1564
Potential Antipumor Agents. I. Hydrasones and bis (Chloroeth	yl)hydrazones of Choicetan-3-	
one Derivatives — L. N. Volovel'skii and A. B. Simkins	1	1871
Investigations in the Pyrimidine Series. VI. N.N-DI(3"-chlore	oomythydrasones of Certain	
Uracil Aldehydes - R. K. Glushkov, E. G. Sochilin, and		
	•	(Contd)
Available From Consultants Bureau		

ZHURNAL OBSHCHEI KHIMII Vol 37, No 7, 1967

	(00)	nmeved)
	Engl./	Russ.
β-Ketovinylation of the π-Cyclopentadienyldicarbonyliron Anion — A. N. Nesmeyanov, L. V. Rybin, M. I. Rybinskaya, and Yu. A. Ustynyuk	1505	1587
M. P. Shebanova, G. A. Kudryavtseva, and I. V. Egorova	1509	1591
— E. B. Sokolova, M. P. Shebanova, and V. S. Leizerach Activation of the Amide Group by Acylation. VIII. Isomerization of β-Hydroxyacylimides	1512	1594
- V. K. Antonov, V. S. Morgulyan, and M. M. Shemyakin	1515	1597
 L. A. Neiman, V. I. Maimind, M. M. Shemyakin, V. A. Puchkov, V. N. Bochkarev, Yu. S. Nekrasov, and N. S. Vul'Ison	1518	1600
Yu. A. Leikin, R. F. Okhovetsker, and E. N. Tsvetkov	1522	1605
A. A. Kisilenko, A. I. Sedlov, and A. V. Kirsanov	1528	1611
Phosphorylated Indoles — A. I. Razumov and P. A. Gurevich	1532	1615
Phosphorylated Benzimidazoles — A. I. Razumov and P. A. Gurevich Derivatives of Phosphonic and Phosphinic Acids, XLVI, Reaction of Orthoacetic Acid Esters	1537	1620
with Dialkylphosphorous Acids — V. V. Moskva, A. I. Maikova, and A. I. Razumov Reaction of Aluminum Halides with m- and p-bis (Trifluoromethyl)benzene — B. F. Malichenko,	1540	1623
G. I. Alyab'eva, and V. F. Kulik	1544	1626
V. V. Sheluchenke, B. I. Tetel'baum, G. M. Luganskii, and A. D. Varshavskii Reactions of Compounds, Containing Three-Membered Rings. II. Reaction of α-Phenyl-vinylphosphonic Acid with Alkene Oxides, Alkene Sulfides and Ethylenimine—S. Z. Ivin,	1548	1631
I. D. Shelakova, V. K. Promonenkov, B. B. Levin, and I. N. Fetin	1556	1640
- S. Z. Ivin, V. K. Promonenkov, and E. A. Fokin	1558	1642
V. A. Kukhtin	1560	1644
— A. N. Pudovik and I. V. Gur'yanova	1566	1649
(aryl)phosphines and Their Derivatives — G. M. Vinokurova	1569	1652
- E. B. Trostyanskaya, E. S. Venkova, and Yu. A. Mikhailin	1572	1655
O. A. Prib. Sulfur-Containing Organoarsenic Compounds. IV. Synthesis and Properties of Some Alkyl-	1575	1657
thio Diarylarsinites — M. P. Osipova, G. Kh. Kamai, and N. A. Chabaeva		1660
- N. V. Komarov and V. K. Roman		1663
- M. S. Malinovskii, A. G. Yudasina, and N. G. Krivosheeva		1666
V. F. Mironov, V. P. Kozyukov, and V. D. Sheludyakov		1669
ammoje novjetnese - ni. G. fotomovi, D. I. Liusti, and E. Ia. Likevits		ontd)
	()	,v.,

ZHURNAL OBSHCHEI KHIMII Vol 37, No 7, 1967

CONTENTS

continued)

	Engl./	Russ.
Organosilicon Polyamides. II. Synthesis of 4,6-Dimethyl-4,6-di-n-hexyl-4,6-disila-5- oxanonanedicarboxylic Acid. Stability of Si-R Bonds in Organosilicon Compounds toward Concentrated H ₂ SO ₄ — G. S. Smirnova, D. N. Andreev, and I. M. V'rbanova Reactions of Compounds, Containing Three-Membered Rings. Reaction of Ethylenimine w'th Chlorosilanes, Sulfenyl Chlorides and α-Chloro Ethers — S.Z.Ivin, V.K. Promonenko, and G. V. Konopatova	1600	1676 1681
	1002	1002
LETTERS TO THE EDITOR On the Question of the Reaction of Pentachlorobenzotrifluoride with Potassium Fluoride - 1, P. Kolenko, B. N. Lundin, F. I. Abezgaus, É. M. Marek, and I. L. Strizhevskii	1506	1686
Oxidative Fluorination of Vinylidene Fluoride in Hydrogen Fluoride — G. G. Belen'kii,		
L. S. German, and I. L. Knunyants	1607	1687
Epoxy Derivatives of γ -Terpinene — S. A. Kozhin and E. I. Sorochinskaya	1608	1638
- A. V. Bogatskii, L. V. Basalaeva, and Yu. Yu. Samitov	1609	1688
Certain Data on the Structure of Spetsiozine - V. V. Kiselev and Yu. N. Sheinker	1610	1689
Synthesis of Triterpenoid Indoles — G. A. Tolstikov, Kim Khya-ok, and M. I. Goryaev Propargylpyrocatechinic Ester of Phosphorous Acid — N. M. Ivakina, Yu. A. Kondrat'ev,	1611	1690
and S. Z. Ivin	1612	1691
Chemical Properties of Alkyl Hypophosphites — É. E. Nifant'ev and L. V. Matveeva The Question of the Mechanism of Homogeneous-Catalytic Hydrosilylation in the Presence	1614	1692
of H ₂ PtCl ₆ ·6H ₂ O - E. G. Kagan	1615	1692

The Russian press date (podpisano k pechati) of this issue was 7/3/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

GENERAL CHEMISTRY

of the USSR

A translation of Zhurnal Obshchal Khimil

Volume 37, Number 8

August, 1967

CONTENTS

	Engl./	/Russ.
Hydration of Primary-Tertiary Acetylenic δ -Glycols of the Alicyclic Series — V. M. Vlasov,		
T. A. Fayorskaya, A. S. Medvedeva, and G. G. Chichkareva	1617	1697
Tautomerism of α -Keto Glycols — A. S. Medvedeva, T. A. Favorskaya, and V. M. Vlasov	1620	1700
Synthesis and Properties of Dehydratocyclols - V. K. Antonov, L. I. Andreeva,		
A. G. Lyakisheva, and M. M. Shemyakin	1623	1703
Reactions of Iminobis[trialkylgermanes] with Acetylenic Compounds - V. F. Mironov,		
E. S. Sobolev, and L. M. Antipin	1627	1707
Metalated Formals — M. A. Kazankova, M. A. Belkina, and I. F. Lutsenko	1630	1710
Application of Preparative Thin-Layer Chromatography in the Investigation of Barene Com-		
pounds - V. N. Kalinin and L. I. Zakharkin	1633	1713
(Arylthio)dichloro- and (arylthio)difluoro-Acetic Acids and Their Derivatives		
- L. M. Yagupol'skii and V. A. Korin'ko	1637	1717
Mercury Iminodiacetates - N. A. Skorik and V. N. Kumok	1641	1722
Reactions of Fluoro Olefins with 1,1-Dimethylhydrazine — A. V. Fokin, Yu. N. Studnev, and		
N. A. Proshin.	1644	1725
Decomposition of t-Butyl Trityl Peroxide in Benzene Catalyzed by Benzenesulfonic Acid		
- V. P. Maslennikov, V. P. Sergeeva, and V. A. Shushunov	1646	1727
Liquid-Crystal Properties of Stigmasterol Esters — G. G. Maidachenko and I. G. Chistyakov	1649	1730
Bisquaternary Ammonium Salts from N,N'-Derivatives of 1,6-Hexanediamine. III		
- V. P. Denisenko, V. P. Rudi, and Z. N. Kharchenko	1651	1732
Synthesis of Organometallic Compounds Containing Si - Ge and Ge - Sn Bonds-N.S.Vyaz <i>a</i> nkin,,		
E. N. Gladyshev, and S. P. Korneva	1655	1736
Reactivity of (Alkynyloxy)tins — M. F. Shostakovskii, R. G. Mirskov, V. M. Vlasov, and		
Sh. I. Tarpishchev	1657	1738
Reactions of Dialkylhydro- and Trialkyl-Galliums with 1,3-Enynic Hydrocarbons		
- V. V. Markova, V. A. Kormer, and A. A. Petrov	1662	1744
Alkylcobaloximes as Models of Cobamide Coenzymes — I. P. Rudakova, V. I. Sheichenko,		
T. A. Postelova, and A. M. Yurkevich.	1666	1748
Synthesis and Investigation of Compounds with Potential Biological Activity. I. Synthesis of		
4-Fluoroglutamic Acid — L. V. Alekseeva, B. N. Lundin, and N. L. Burdé	1671	1754
Digomeric N-Methylated Amides and Amines. III. N-Phthaloyl-β-alguine Derivatives		
- N. V. Smirnova, N. S. Prosorova, and A. P. Skoldinov	1673	1756
Synthesis of Di- and Poly-peptides — V. A. Nekrasova and G. A. Kaminskaya	1677	1761
Synthesis of Fragment of Lysine Analog of Polymyxin M. Nonanoyl-L-lysyl-L-threonyl-L-		
lysyl-L-lysine — E. A. Morosova, E. S. Oksenoit, and I. A. Grava	1680	1764
Composition of "Neutral Fraction" from Oxidation of \$-Sitosterol — M. V. Makhina,		
E. V. Ksenofontova, and A. M. Khaletskii	1683	1767
	(c	ontd)
	` '-	

ZHURNAL OBSHCHEI KHIMII Vol 37, No 8, 1967

	Engl./	Russ.
Halogen Exchanges in Trihalomethyl Groups — L. M. Yagupol'skii and N. V. Kondratenko Substituted Hydroxy Carbohydrazides. XL. Basic Character of N'-Arylbenzilohydrazides	1686	1770
- I. S. Berdinskii and N. A. Kostareva	1691	1776
Complex Formation of Phthalic Anhydrides — G. P. Naletova, L. V. Osintseva, and B. V. Tronov. Complex Compounds of Metals with Some Nitrogen-Containing Ligands. VIII. Nickel Complexes of o-(Benzylideneamino)phenols — L. V. Orlova, A. D. Garnovskii, O. A. Osipov,	1694	1779
and V. I. Minkin	1699	1783
 L. V. Orlova, A. D. Garnovskii, O. A. Osipov, and O. A. Raevskii Complexes of 1,2-bis (Diphenylphosphino)barene and 1,2-bis (Diphenylphosphino)halobarenes 	1704	1787
with Nickel — L. I. Zakharkin and G. G. Zhigareva	1707	1791
V. F. Kulik	1711	1796
and A. V. Kirsanov	1713	1797
2-(Perfluoroalkenyl)benzothiazoles - L. M. Yagupol'skii and N. A. Malichenko	1714	1798
1H-Naphth[2,3-d]imidazole-4,9-diones Substituted in the Hetero Ring and Their Quaternary Salts (Polarographic Study) — V. S. Kuznetsov, N. A. Sobina, L. Ya. Kheifets, and	4-4-	
L. S. Éfros	1717	1802
P. I. Levin, and A. I. Karpycheva	1724	1809
Z. N. Kvasha, and A. F. Kolomiets	1726	1811
$[\alpha,\beta,\gamma,\delta$ -Tetrakis (p-sulfophenyl)porphinato (2-)]cobalt-Co ¹⁶ – V. I. Stanko and L. N. Burtseva Aminophosphoranes Containing Electron-Acceptor Groups – V. P. Evdakov, L. I. Mizrakh,	1731	1816
and L. Yu. Sandalova	1733	1818
- A. A. Neimysheva, V. I. Savchuk, and I. L. Knunyants	1736	1822
phorus Oxides — S. R. Rafikov and I. A. Arkhipova	1743	1820
Salts of Dialkyl and Diaryl Hydrogen Phosphoro-thioates and -dithioates. IX. Synthesis and Some Properties of Potassium O,O-Diaryl Phosphorothioates — I. G. Vitenberg,	1140	1046
V. G. Pesin, and R. F. Preser	1746	1832
Structure of O,O-Dialkyl Hydrogen Phosphorodithioates and Their Alkali-Metal Salts - N. I. Zemlyanskii and B. P. Kotovich	1749	1835
Reactions of Ethyl- and p-Tolyl-phosphonous Dichlorides with α,β-Unsaturated Acids - V. K. Khairullin, G. V. Dmitrieva, and A. N. Pudovik	1752	1838
Reactivity of Bis(trialkylsilyl) Hydrogen Phosphites — L. N. Volodina		1842
Stability of Quasiphosphonium Salts (Intermediate Products in Arbusov Reaction) — L. V. Nesterov and R. I. Mutalapova.	1756	
Redistribution of Methyl and Phenoxy Groups in Quasiphosphonium Ions - L. V. Nesterov		
and R. I. Mutalapova	1700	1041
Some Properties of Dialkyl 2-Propynyl Phosphates and O,O-Dialkyl 8-2-Propynyl		
Phosphorothicates — Ya. S. Arbisman, N. S. Rylyakova, V. V. Tarasov,		
Yu. A. Kondrat'ev, and S. Z. Ivin	1763	1990
of Tervalent Phosphorus Acids — É. E. Nifant'ev and A. I. Esvalishina Synthesis and Properties of Bischloromethylphosphinic Derivatives — B. E. Ivanov,	1766	1854
A. R. Panteleeva, R. R. Shagidallin, and I. M. Shermergora	1766	1856

ZHURNAL OBSHCHEI KHIMII Vol 37, No 8, 1967

	Engl./	Russ.
Investigation of Organophosphorus Compounds by the NMR Method Analysis of A ₂ BX Spectra of Propadienylphosphonic Derivatives — B. I. Ionin, V. M. Ignat'ev, and		
V. B. Lebedev	1774	1863
— Ya. A. Levin, V. S. Galeev, and E. K. Trutneva	1783	1872
L. Yu. Sandalova, and V. P. Evdakov	1786	1875
N-Phosphoranylidenesulfenamides — I. N. Zhmurova, A. P. Martynyuk, and A. V. Kirsanov.	1789	1879
Synthesis and Electronic Absorption Spectra of Diethylphenylphosphine Imides	2.00	2010
- B. 1. Stepanov, T. G. Edel'man, and I. M. Kolbasova	1793	1883
Phosphoric Esters of Choline Analogs. II. 1-(N-Heteryl)-2-propanol Dialkyl Phosphates		
— G. F. Dregval', A. M. Samuilov, and I. V. Komissarov	1795	1885
Addition of Ethanethiol and Bromine to 1,2-Alkadienylphosphonic Esters — A. N. Pudovik		
and N. G. Khusainova	1799	1889
N-Phosphorylated Derivatives of 2,2,2-Trichloroacetamidines — G. I. Derkach and		
B. P. Rudavskii	1803	1893
Synthesis of Some o-Hydroxy-azo Derivatives of Diphenylphosphinic Acid - V. M. Dziomko,		
I. S. Markovich, and I. M. Yakhnis	1806	1897
Phosphonic Derivatives Containing Allenic Groups - V. M. Ignat'ev, B. I. Ionin, and A. A. Petrov.	1807	1898
Rearrangement of Tertiary Arsine Sulfides. II. Rearrangement of Ethyl-1-naphthylphenyl- arsine Sulfide under the Action of Alkyl Halides — Yu. F. Gatilov, G. Kh. Kamai, and		
L, B, lonov	1812	1904
Unsaturated Organosilicon Compounds. XVIII. Orientation in the Radical Addition of		
Ethanethiol to Some Enynic Sila Hydrocarbons and Their Hydrocarbon Analogs	1014	100#
— I. G. Sulimov and M. D. Stadnichuk		1906
- V. F. Mironov, V. P. Kozyukov, and V. D. Sheludyakov	1821	1915
LETTERS TO THE EDITOR		
1-Chlorophospholene 1-Sulfides — N. A. Razumova, L. S. Kovalev, and L. I. Zubtsova	1824	1919
Intermediate Products of the Arbuzov Rearrangement — A. I. Razumov, B. G. Liorber, and		
Z. M. Khammatova	1825	1920
2.4.6-Triarylphosphorins — A. I. Tolmachev and E. S. Koslov	1826	1921
Synthesis of Oligonucleotides. Uridylyl-(3' - 5')-uridine 3'-Phosphate and Adenylyl-(3'5')-		
uridine 3 - Phosphate — N.S. Tikhomirovs-Sidorova, A. P. Kavunecko, and E. A. Pyaivinen	1827	1923
Isomerization Reactions of Serine N,O-Peptides — M. M. Botvinik and L. M. Koksharova	1828	1934
New Method for the Synthesis of bis-r-Allylhelonickels - V. A. Vashkevich,		
A St. Familia and D. T. Mitemen	1830	1006

Available From Consultants Bureau

The Russian press date (podpisano k pechati) of this issue was 8/18/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

JOURNAL OF

GENERAL CHEMISTRY

of the USSR

A translation of Zhurnal Obshchel Khimil

Volume 37, Number 9

September, 1967

CONTENTS

	Engl./	/Russ
Alexander Erminingel'dovich Arbuzov (On His 90th Birthday) - F. G. Valitova and V. M. Zoroastrov	1831	1929
Use of Polyhedrons for the Investigation of Separate Regions of Multicomponent Systems		1000
- V. A. Ocheretnyi	1841	1939
- T. A. Alekseeva and V. D. Bezuglyi	1845	1943
Trichloroacetamides — Yu. V. Svetkin and L. N. Andreeva	1850	1948
Polarographic Study of the Oxidation of Vinyl Chloride in the Liquid Phase - A. I. Kalinin	1853	1951
Polarographic Behavior of 2-Arylindan-1,3-diones — Ya. P. Stradyn' and I. K. Tutane Polarographic Behavior of Some Compounds of the 2-Arylindandione Series — I. K. Tutane	1857	1956
and Ya. P. Stradyn'	1862	1962
B. M. Krasovitskii, and V. D. Bezuglyi	1867	1967
I. D. Kushina, M. M. Gil'burd, and B. G. Syrvatka	1870	1970
Fluorobenzene — S. P. Makarov, A. F. Vídeiko, T. V. Nikolaeva, and M. A. Énglin Cyclic Diphenylboron Derivatives of Aminohydroxy Acids — A. M. Yurkevich and	1875	1975
G. V. Parkhomenko.	1877	1077
Synthesis and Biologic Activity of Glycolyl 3-Glutathione - L. A. Shchukina and A. L. Zhuze .	1880	
Addition of Organoaluminum Compounds to Multiple Bonds, IV. Reactions of Trialkyl Aluminum Derivatives with Vinylacetylene Hydrocarbons — V. V. Markova,		
V. A. Kormer, and A. A. Petrov	1886	1987
Investigations in the Field of the Chemistry of Coenzymes, Nucleosides, and Nucleotides. III. Syntheses of Nucleoside 5'-Di- and Nucleoside 5'-Triphosphates — I. I. Kolodkina,		
L. S. Varshavskaya, A. M. Yurkevich, and N. A. Preobrazhenskii	1894	1996
IV. Benzeneboronates of Pyrimidine Nucleosides - A. M. Yurkevich,		
L. S. Varshavskaya, I. I. Kolodkina, and N. A. Preobrazhenskii	1898	2002
ω-Phenylperfluoroalkyl lodides and α,ω-Diphenylperfluoroalkanes — A. G. Galushko,		
V. V. Shokina, L. M. Yagupol'skii, and I. L. Kmunyants	1903	2006
Some Heterolytic Reactions of Nitroperfluoroalkyl Nitritus - I. L. Kaunyants, A. V. Pokin,		
Yu. M. Kosyrev	1907	
	(Co	ntd)
Available From Consultants Bureau		

ZHURNAL OBSHCHEI KHIMII Vol 37, No 9, 1967

	Engl./	Russ.
Arylation of C ₅ H ₅ Fe(CO) ₂ I with Aromatic Mercury Compounds - A. N. Nesmeyanov,		
 V. Polovyanyuk, B. V. Lokshin, Yu. A. Chapovskii, and L. G. Makarov The Reaction of Diphenyl Mercury with Tertiary Butyl Hydroperoxide and Peroxide S. F. Zhil'tsov, L. F. Kudryavtsev, O. N. Druzhkov, M. A. Shubenko, and 	1911	2015
G. G. Petukhov	1914	2018
A. N. Medvedev, S. S. Dubov, M. F. Lebedeva, M. N. Vasil'eva, and L. L. Martinova Reactions of 2- $(\beta,\beta,\beta$ -Trifluoroethyl)benzthiazole and 2- $(\alpha,\beta,\beta,\beta$ -Tetrafluoroethyl)benzthiazole with Organometallic Compounds — B. E. Gruz, L. I. Katerinenko, and	1919	2023
 L. M. Yagupol'skii The Participation of Phosphorus d-Orbitals in the Formation of π-Bonds and in Conjugation with π-Electron Systems. I. Vibrational-Electronic Spectra of Compounds with 	1925	2029
P=O and P=N Bonds - A. E. Lutskii, Z. A. Shevchenko, L. I. Samarai, and A. M. Pinchuk The Participation of Phosphorus d-Orbitals in the Formation of π-Bonds and in Conjugation with π-Electron Systems. II. Dipole Moments of Several Phosphazo Compounds	1930	2034
 A. E. Lutskii, L. I. Samarai, L. A. Kochergina, A. V. Shepel', Z. A. Shevchenko, G. I. Derkach, É. S. Kozlov, and B. S. Drach	1937	2042
V. L. Vinogradov	1941	2047
M. A. Raksha, V. L. Vinogradov, and A. Ya. Gusakov	1943	2049
Some Derivatives of Ditert(β, β, β -trichloroalkyl)phosphorous Acids — V. N. Eliseenkov The Synthesis of Tertiary Fhosphine Oxides with Functional Groups — B. M. Gladshtein and	1946	2052
V. M. Zimin	1949	2055
Acids — E. G. Kataev, T. G. Mannafov, and G. I. Kostina	1953	2059
A. D. Novosel'skaya	1955	2061
N. F. Orlov, B. L. Kaufman, and V. A. Pestunovich	1958	2065
Derivatives of Mono- and Dissocyanates of Phosphorus — G. I. Derkach and E. I. Siyusarenko Alkylation of Trieth-lamine by Dialkyl or Alkylarylthiophosphoric Acid Amides	1961	2069
— T. G. Rymareva, K. D. Shvetsova-Shllovskaya, and N. N. Mel'nikov	1965	2074
 M. R. Pitina, T. M. Ivanova, and N. I. Shvetsov-Shilovskii	. 1968	3076
N. P. Galitskova, and I. F. Lutsenko	1972	2080
Chloride - A. N. Pudovik, I. V. Gur'yanova, and M. G. Zimin	1979	2088
p-Phenylenebisphosphazo Compounds - A. S. Shtepenek, E. N. Tkachenko, and A. V. Kirsanov		
Reaction of Functional Groups via x-Electron Systems. IV. Reaction via Aromatic Rings, Attached to the N=S=N Group - A. E. Lutskii, Z. A. Shevchenko, L. A. Kochergina,		
E. S. Levchenko, B. N. Usarov, I. I. Men'shova, and Ya. G. Bal'on	1966	2095
Negative Halochromism of Some Dimethylaminoasobensene Derivatives — L. M. Yagupol'akii and L. Z. Gandel'sman	1992	2101
Synthesis and Some Transformations of β-Silicon-Containing Vinyl Ethers — N. V. Komarov and I. I. Isonina	1908	
	(0	iontd)

ZHURNAL OBSHCHEI KHIMII Vol 37, No 9, 1967

	Engl./	Russ.
Destructive Hydrogenation of Trialkylalkoxysilanes — B. A. Bolotov, N. P. Kharitonov, E. A. Batyaev, and E. G. Rumyantseva	2002	2113
- B. A. Sokolov and A. N. Grishko	2007	2117
Synthesis of Vinyl Ethers of γ-Silicon-Containing Aminoethanols — N. V. Komarov and E. V. Serebrennikova	2010	2120
- D. Ya. Zhinkin, G. N. Mal'nova, Zh. V. Gorislavskaya, and K. K. Popkov Relation between the strength of the Si-O Bond and the Nature of the Substituent in Para-	2013	2124
Substituted Trimethylphenoxysilanes — A. P. Kreshkov, V. A. Drozdov, and V. N. Knyazev Organic Insectofungicides. Synthesis of 1,2,3,4,7,7-Hexachlorobicyclo[2.2.1]hept-2-enebis- 5,6-methyl N-Alkyl- and N,N-Dialkylcarbamates — A. F. Anishchenko, S. D. Volodkovich, N. N. Mel'nikov, and S. I. Shestakova	2017	
	2021	2132
LETTERS TO THE EDITOR Acetylene – Allene Isomerization of Propargyl Phosphite Derivatives of Haloacetylenic and		
Vinylacetylenic Alcohols — V. M. Ignat'ev, B. I. Ionin, and A. A. Petrov	2024	2135
Synthesis of 1,1'-Bisneocarborane — V. N. Kalinin and L. I. Zakharkin First Organotin Ozonide — Product of Ozonolysis of Triethylstannic Chloride	2025	2136
— Yu. A. Aleksandrov and N. G. Sheyanov	2026	2136
- V. V. Moskva, A. I. Maikova, and A. I. Razumov	2027	2137
benzenes — B. I. Stepanov, B. A. Korolev, and S. L. Polyakova	2028	2138
B. A. Korolev	2029	2139
Reaction of Cyanurchloride with Dialkylanilines in the Presence of Aluminum Chloride		
— B. I. Stepanov, G. I. Mugachev, and E. F. Il'ina	2031	2140
- V. V. Yastrebov and A. I. Chernyshev	2032	2140
E. A. Rybakov, and V. F. Mironov	2033	2141

Available From Consultants Bureau

The Russian press date (podpisano k pechati) of this issue was 9/19/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

JOURNAL OF

GENERAL CHEMISTRY

of the USSR

A translation of Zhurnel Obshchei Khimii

Volume 37, Number 10

October, 1967

CONTENTS

	Engl./	/Russ.
Thermochemistry of Solutions of Electrolytes. VII. Aqueous Solutions of KNO ₃ and NaNO ₃ at Various Temperatures — K. P. Mishchenko and L. P. Shpigel'	2035	2145
V. M. Miniovich, and G. D. Efremova	2040	2150
Isomers — I. M. Bokhovkin, Yu. I. Bokhovkina, and V. F. Chesnokov	2044	2155
A. G. Bergman	2047	2157
and Nitrates — O. I. Dmitrevskaya and N. M. Sokolov	2050	2160
— V. B. Aleskovskii and N. G. Roslyakova	2055	2166
cyclic Propenone Derivatives (Application of Correlation Equations) - G. G. Belous, V. F. Lavrushin, and V. D. Bezugiyi	2058	2169
Acid with Adenosine Monophosphates - A. M. Yurkevich, V. I. Borodylina-Shvets,		
I. I. Kolodkina, and N. A. Preobrazhenskii		2176
α -D-glucopyranose - S. G. Verenikina, A. M. Yurkevich, and N. A. Preobrashenskii . Synthesis of Tripeptides Containing Histidine and Aliphatic Amino Acids — Yu. V. Mitin	2068	2181
and V. R. Glushenke. 4	2072	2184
- P. F. Vlad, G. V. Kryshtal', and G. V. Lasur'evskii	2074	2187
phosphates — S. M. Avavea, S. N. Kara-Mursa, and M. M. Botvinik	2078	2190
N. N. Vorozhtsov, Jr.	2082	2195
Bifunctional Reactivity of Pentahalophenols - N. Ya. Tel'pina and S. V. Sokolov	2085	2197
Complex Formation of 1,3,5-Trinitrobensene with Sodium and Lithium Indides in Some		
Alcohols, Esters, and Ketones — B. V. Tronov, L. A. Romanchukova, and A. B. Tronov O- and C-Heteroorganic Isomers. VI. O-Heteroorganic (Si, Ge, Sn, B) Derivatives of 1-Cyclohexen-1-ol — S. V. Ponomarev, Yu. I. Bankov, O. V. Dudakina, I. V. Petrosyan,	2088	2300
and L. I. Petrovskaya	2092	2204
Optical Rotations o. Molecules with Different Types of Asymmetry — V. I. Sokolov	3095	
		ontd)

ZHURNAL OBSHCHEI KHIMII Vol 37, No 10, 1967

	Engl./	Russ.
Kinetics and Mechanism of the Methoxymercuration of 5-Vinyl-2-picoline in Methanol	_	
— A. P. Kreshkov and L. N. Balyatinskaya	2099	2211
A. F. Pozharskii, and A. M. Simonov	2103	2215
and K. N. Kovalenko	2105	2217
New Complex-Forming Compounds — Ya. L. Gol'dfarb, S. A. Ozolin', and V. P. Litvinov Activation of the Amide Grouping by Acylation. IX. Isomerization of 1-(Hydroxyalkanoyl)-	2108	2220
2,5-piperazinediones into Cyclols — V. K. Antonov, A. M. Shkrob, and N. N. Shemyakin 7-Oxabicyclo[2,2,1]hept-anes and -enes. XL. Effect of Electron-Acceptor Groups on the Solvolysis of Bromo Derivatives of the 7-Oxabicyclo[2,2,1]heptane Series	2113	2225
- N. S. Zefirov, R. S. Filatova, and Yu. K. Yur'ev	21 21	2234
of o- and m-Barenes - V. I. Stanko, A. I. Klimova, and T. P. Klimova	2123	2236
Action of Some Dihalo Derivatives on Sodium Dialkyl Phosphites and on Trialkyl Phosphites	01.00	0040
 V. S. Abramov and N. A. Moskva	2129	2243
on the Rate of Transetherification - A. S. Ésterin, E. G. Sochilin, I. M. Dolgopol'skii,		
L. A. Baranovs, and A. F. Fursenko	2133	2247
Mechanism of the Process — A. S. Éstrin, E. G. Sochilin, I. M. Dolgopol'skii,		
L. A. Baranova, and A. I. Barkova	2137	2252
tion Equations — A. A. Neimysheva, V. A. Pal'm, G. K. Semin, N. A. Loshadkin, and		
I. L. Knunyants	2140	2255
and L. M. Lazareva	2147	2262
Reactions of O,O-Dialkyl and O,O-Diaryl Hydrogen Phosphorodithioates with Aldehydes and Ketones. I. Reactions of O,O-Dialkyl and O,O-Diphenyl Hydrogen Phosphorodithioates		
with Benzaldehyde - N. I. Zemlyanskii and T. P. Bachinskii	2151	2266
Synthesis of (Alkylphosphinidene)dimethanols — R. K. Valetdinov, E. V. Kusnetsov, R. R. Belova, R. K. Mukhaeva, T. I. Malykina, and M. Kh. Khasanov	2154	2269
Determination of Active Hydrogen in Phosphonium Salts and Some Phosphoranes by		
Terent'ev's Method (with Chugaev's Reagent) — A. V. Dombrovskii and V. N. Listvan . Alkylthionophosphine Sulfides. VII. Synthesis of Mixed Alkylphosphonotrithioic Esters	2159	2273
— O. N. Grishina உர் ட். M. Kosova	2162	2276
Application of the Oxidative Dichlorophosphinylation Reaction in the Synthesis of Organo- phosphorogermanium Compounds — N. G. Dzhurinekaya, S. A. Mikhailyants, and		
V. P. Evdakov	2165	2278
Phosphorus-Containing Heterocycles. XI. Some Reactions of Substituted 3-Chloro-1,3-oxaphosphol-4-ene 3-Oxides — K. I. Novitskii, N. A. Rasumova, and A. A. Petrov	2167	2280
8,8-bis- and 8,8,5-Tris[(alkylcarbamoyi)methyl] Esters of Phosphoro-tri- and -tetra-thiole		
Derivatives — Ya. A. Mandel baum, R. S. Soifer, N. N. Mel'nikov, and L. A. Belova	2173	2257
Reactions of Dialkylphosphoramidothicic Dichlorides with N-Alkyl-3-mercaptes, stamides — R. S. Soifer, Ya. A. Mandel'beum, N. N. Mel'nikov, and L. A. Belova	2178	2201
Synthesis of Organosilicon Acetylenic α-Epoxides - F. Ya. Perveev, A. I. Popov, and	2181	-
L. P. Morosova	-174	
	2184 (C/	2297 ontd)

ZHURNAL OBSHCHEI KHIMII Vol 37, No 10, 1967

	Engl.	/Rus
Dissociation of Methylsiloxanes under Electron Bombardment — V. Yu. Orlov Synthesis of Thiobis[triethyltin] and Allied Compounds. IV. IR Spectra of Some Di- and Triheteroorganic Compounds Containing the (C ₂ H ₅)381 Group — A. N. Egorochkin, S. Ya. Khorshev, N. S. Vyazankin, M. N. Bochkarev, O. A. Kruglaya, and	2188	2300
G. S. Semchikova	2195	2308
L. A. Leites	2198	2311
S. V. Kul'kova	2202	2315
and B. L. Kaufman	2207	2320
V. Z. Anisimova, and E. M. Berliner	2210	2323
Ethanethiol to 1,3-Enynic Germanes — I. G. Sulimov and M. D. Stadnichuk Synthesis and Breakdown Reaction of t-Butyl 3-(Triethylgermyl)peroxypropionate	2215	2329
- N. S. Vyazankin, T. N. Brevnova, and G. A. Razuvaev	2220	2334
A. V. Malysheva	2224	2339
Triethylisopropyltin — Yu. A. Aleksandrov and B. A. Radbil'	2230	2345 2350
LETTERS TO THE EDITOR	2430	2330
Synthesis of Polyhalogenated N,N-Difluoromethylamines — V. A. Ginsburg, K. N. Smirnov,		
M. N. Vasil'eva, and A. N. Medvedev	2240	2354
of Complexes — V. A. Gorodyskii	2241	2355
and D. G. Moskovtseva	2243	2357
- Yu. P. Volkov and L. N. Khachatur'yan	2244	2358
P. K. Leont'evskaya, and B. P. Nikol'skii	2245 2246	2359 2359
Ullmann Reaction for Iodo Derivatives of o- and m-Barenes - V. I. Stanko, Yu. V. Go'tyanin, and V. A. Brattsev	2247	2360
IR Absorption of C = C Bond in Esters of α, α' -Enediols — A. V. Upadysheva, L. I. Misrakh, Yu. I. Volodarskaya, L. Yu. Sandalova, and V. P. Ewdakov.	2248	2361
Reaction of $(\alpha, \alpha', \alpha', \beta, \beta, \beta', \beta')$ -Octachloroalkylene)bis[Phosphoromidic Trichlorides] with Alkali-Metal Fluorides — V. I. Shevchenko, V. P. Kukhar', and A. V. Kirsanov	2250	2361
Phosphorylation of α-Epoxides with Acyl Phosphates — É.A. Parfenov, G.A. Serebrennikova, and N.A. Preobrashenskii.	2251	2363
Copper Hydride Complexes of Phosphites and Phosphines — I. F. Latsenko, M. A. Kasankova, and I. G. Malykhina	2263	2364
Reactions of Ethylphosphonochloridothious Esters with Dialhylphosphinodithiole Esters — E. A. Krasil'nikova, A. M. Potanov, and A. I. Rassmov	2254	2345

The Russian press date (podpissas k pechati) of this issue was 10/12/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

JOURNAL OF

GENERAL CHEMISTRY

of the USSR

A translation of Zhurnal Obshchei Khimii

Volume 37, Number 11

November, 1967

CONTENTS

	Engl./	Russ.
The Chemistry of Natural Products - Bioorganic Chemistry - M. M. Shemyakin and		
A. S. Khokhlov	2255	2369
Development of Organometallic Chemistry in the Soviet Union — O. Yu. Okhlobystin Progress in the Chemistry of Organophosphorus Compounds in the USSR — A. N. Pudovik,	2261	2376
I. V. Gur'yanova, and R. A. Cherkasov	2277	2393
Determination of the Last Integral Heats of Solution of Certain Crystal Hydrates		
- V. A. Latysheva and S. V. Karavan	2304	2420
The Effect of the Acidity of the Medium on the Yield of Chemical Forms of Phosphorus		
Recoil Atoms - R. V. Bogdanov and A. N. Murin	2308	2425
Phase Equilibria of the System Water-Hydrogen Chloride-Dipropyl Ether - M. V. Ionin		
and V. G. Shverina	2313	2431
Study of Hydroxydihydrofurans. XVIII. The Reaction of Dihydrofuryl Salts with Potassium		
Cyanide - V. V. Belogorodskii, L. A. Pavlova, and E. D. Venus-Danilova	2317	2435
3,6-Endoxocyclohexanes and -cyclohexenes. XLI. Synthesis and Reactivity of an		
a-Endooxide of the 7-Oxabicyclo[2.2.1]heptane Series - N. S. Zefirov and R. S. Filatova.	2322	2440
Complex Formation between Aromatic Halogeno-Amines and Nitro Compounds. L. Reaction		
of p-Halogenoanilines with Dinitrobensenes — B. V. Tronov and E. G. Polle	2326	2444
Investigations in the Tetracycline Field. XLVI. Nucleophilic Additions to Ol-Bensyl-Al-		
tricycline-DCB and the Phthalidic Cleavage of 9-Hydroxyoctahydroanthracene-4,10-		
diones - A. I. Gurevich, M. N. Kolosov, B. G. Korobko, and S. A. Popravko	2329	2448
Investigations into the Field of Complex Lipids. Synthesis of N-(Glycylglycyl)-(a, \beta-dipal-		
mitoyl)-phosphatidylethanolamine — S. Ya. Mel'nik, M. A. Miropol'skaya, and		
G. I. Samokhvalov	2333	2452
The Reaction of Certain Hydroxyaldehydes and Aldoses with p-Methoxybensoylmethylene-		
phosphorane — V. A. Polenov and Yu. A. Zhdanov	2336	2455
Syntheses Based on Diterpenes. IX. Oxidation of Sciarcol by Persoids — D. P. Popa and		
V. V. Titov	2340	2459
Complexes of Mercury (+2) Halides with Antipyrene and Its Derivatives - V. K. Akimov,		
A. I. Busey, B. E. Zaitsey, and L. S. Khintibidse	2343	2462
IR Spectroscopic Study of the Structure of Certain Amide Complexes - A. A. Zheinov,		
G. F. Gavrilin, and V. E. Chistyakov	2347	2467
Fluorine-Containing Cyanine Dyes. XV. Cyanine Dyes with Fluorine Atoms in the Poly-		
methine Chain - L. M. Yagupolekii and B. E. Grus	2350	3470
Acyl Imines of Perfluoroketones - a New 1,4-Dipolar System - Yu. V. Zeifman,		
N. P. Gambaryan, L. A. Simonyan, R. B. Misasyan, and I. L. Kaunyants	2365	2476
On the Chlorination of 3-Pluoro- and 4-Phiorophenois - A. F. Kolomiets, L. A. Kaiutskii,		
and N. K. Blisnijuk	2364	3486
•	(00	ntd)

JOURNAL OF

GENERAL CHEMISTRY

of the USSR

A translation of Zhurnal Obshchei Khimii

Volume 37, Number 11

November, 1967

CONTENTS

	Engi./	Russ
The Chemistry of Natural Products - Bioorganic Chemistry - M. M. Shemyakin and		
A. S. Khokhlov	2255	2369
Development of Organometallic Chemistry in the Soviet Union — O. Yu. Okhlobystin	2261	2376
Progress in the Chemistry of Organophosphorus Compounds in the USSR - A. N. Pudovik,		
I. V. Gur'vanova, and R. A. Cherkasov	2277	2393
Determination of the Last Integral Heats of Solution of Certain Crystal Hydrates		
- V. A. Latysheva and S. V. Karavan	2304	2420
The Effect of the Acidity of the Medium on the Yield of Chemical Forms of Phosphorus		
Recoil Atoms - R. V. Bogdanov and A. N. Murin	2308	2425
Phase Equilibria of the System Water-Hydrogen Chloride-Dipropyl Ether - M. V. Ionin		
and V. G. Shverina	2313	2431
Study of Hydroxydihydrofurans. XVIII. The Reaction of Dihydrofuryl Salts with Potassium		
Cyanide - V. V. Belogorodskii, L. A. Pavlova, and E. D. Venus-Danilova	2317	2435
3.6-Endoxocyclohexanes and -cyclohexenes. XLL. Synthesis and Reactivity of an		
α -Endooxide of the 7-Oxabicyclo[2.2.1]heptane Series — N.S. Zefirov and R.S. Filatova.	2322	2440
Complex Formation between Aromatic Halogeno-Amines and Nitro Compounds. L. Reaction		
of p-Halogenoanilines with Dinitrobenzenes - B. V. Tronov and E. G. Polle	2326	2444
Investigations in the Tetracycline Field. XLVI. Nucleophilic Additions to O ⁵ -Benzyl-Δ ² -		
tricycline-DCB and the Phthalidic Cleavage of 9-Hydroxyoctahydroanthracene-4,10-		
diones — A. I. Gurevich, M. N. Kolosov, B. G. Korobko, and S. A. Popravko	2329	2448
Investigations into the Field of Complex Lipids. Synthesis of N-(Glycylglycyl)-(α,β-dipal-		
mitoyl)-phosphatidylethanolamine - S. Ya. Mel'nik, M. A. Mircyol'skaya, and		
G. I. Samokhvalov	2333	2452
The Reaction of Certain Hydroxyaldehydes and Aldoses with p-Methoxybenzoylmethylene-		
phosphorane - V. A. Polenov and Yu. A. Zhdanov	2336	2455
Syntheses Based on Diterpenes. IX. Oxidation of Sclareol by Peracids - D. P. Popa and		
V. V. Titov	2340	2459
Complexes of Mercury (+2) Halides with Antipyrene and Its Derivatives - V. K. Akimov.		
A. I. Busev, B. E. Zaitsev, and L. S. Khintibidze	2343	2462
IR Spectroscopic Study of the Structure of Certain Amide Complexes - A. A. Zhelnov,		
G. F. Gavrilin, and V. E. Chistyakov	2347	2467
Fluorine-Containing Cyanine Dyes. XV. Cyanine Dyes with Fluorine Atoms in the Poly-		
methine Chain — L. M. Yagupolakii and B. E. Gruz	2350	2470
Acyl Imines of Perfluoroketones - a New 1,4-Dipolar System - Yu. V. Zeifman,		
N. P. Gambaryan, L. A. Simonyan, R. B. Minasyan, and I. L. Knunyants	2355	2476
On the Chlorination of 3-Fluoro- and 4-Fluorophenols - A. F. Kolomiets, L. A. Kalutskii,		
and N. K. Bliznyuk	2364 (Co	2486 ntd)

ZHURNAL OBSHCHEI KHIMII Vol 37, No 11, 1967

	Engl./	Russ.
Some Reactions of Pentafluorobenzoylacetic Ester - A. T. Prudchenko, G. S. Shchegoleva,		
V. A. Barkhash, and N. N. Vorozhtsov, Jr	2366	2487
M. N. Vasil'eva	2371	2493
 É. E. Nifant'ev, A. I. Zavalishina, and I. V. Komlev On Conjugation in Systems with Tetrahedral Phosphorus Atoms. The Effect of the Substituents' Polarities on the Reactivities of Phosphamidines V. A. Gilyarov, 	2375	
A. M. Maksudov, and M. I. Kabachnik	2378	2501
Reaction of Acid Phosphites with Disulfides — V. N. Aleksandrov and V. I. Emel'yanov Studies in the Field of Amides and Anhydrides of Acids of Phosphorus. XV. Reaction of Anhydrides of Phosphonic and Thiophosphonic Acids with a Grignard Reagent	2383	2505
- V. P. Evdakov and E. I. Alipova	2385	2508
V. K. Promonenkov, and E. A. Fokin	2388	2511
Method for Phosphorylation of Elements of Groups IV, V, and VI (Carbon, Tin, Titanium, Antimony, and Sulfur) — B. M. Gladshtein, V. G. Noskov, and L. Z. Soborovskii Reaction of Aryldiethylenetriamides of Phosphoric Acid with Some Acids — L. D. Protsenko	2391	2513
and E. A. Svyatnenko	2396	2517
M. R. Rakhimova, and M. Kh. Khasanov	2400	2522
Reaction of Dimeric Trichlorophosphazoalkanes with Primary Aliphatic Amines - B. S. Drach, I. N. Zhmurova, and A. V. Kirsanov	2402	2524
Derivatives of Isocyanatotrichloromethylphosphonic Fluoride — V.A. Shokol, V.F. Gamaleya, and G. I. Derkach	2406	2528
G. Kh. Kamai, R. B. Sultanova, and R. R. Shagidullin	2410	2532
N. N. Mel'nikov, and L. M. Golovleva	2417	2540
Mechanism of the Cleavage of the Si—Car. Bond in Aryl- and Alkylarylsilanes in the Electrophilic Halogenation Process — G. V. Motsarev and A. Ya. Yakubovich Hydrolysis of (Benzoyloxymethyl)ethoxysilanes and Their Cohydrolysis with Trimethyl-chloro- and Dimethyldichlorosilanes — K. A. Andrianov, A. K. Dabagova, and	2421	2544
N. S. Yanovskaya	2424	2547
- M. G. Voronkov and L. A. Zhagata	2427	2551
acetic Acids — L. K. Maslii and I. L. Dobroserdova	2430	2554
V. A. Bartashev, T. P. Maksimova, and N. V. Kozlova	2434	2558
— G. N. Koroleva and V. O. Reikhsfel'd	2436	2559
Synthesis of Arylcyclopropane Hydrocarbons from Compounds Containing the Arc—C—C		
or ArC-C-OH Grouping and Lithium Aluminum Hydride - L. I. Zakharkin and	.	•
L. A. Savina		2565
E. S. Sobolev, and L. M. Antipin		2573
M. N. Bochkarev, L. P. Sanina, A. N. Egorochkin, and S. Ya. Khorahev		2576
	(0	ontd)

ZHURNAL OBSHCHEI KEIMII Vol 37, No 11, 1967

	Engl./	'Russ
Reactions of Phosphorous, Ethylphosphonous, and Thiophosphorous Ester Acids with Some Substituted Benzoylphosphonic Esters — A. N. Pudovik, I. V. Gur'yanova, and M. G. Zimin	2456	2580
LETTERS TO THE EDITOR		
The Reaction of Thioester Chlorides of Ethylphosphinous Acid with Dialkyl Sulfides		
— E. A. Krasil'nikova, A. M. Potapov, and A. I. Razumov	2460	2585
L. N. Shitov	2461	2586
Aveilable From Consultants Bureau		

The Russian press date (podpisano k pechati) of this issue was 10/30/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Company of the Common Company of the Common Common

JOURNAL OF APPLIED CMEMISTRY

of the USSR

A translation of Zhurnal Prikladnoi Khimii

Volume 40, Number 11

November, 1967

CONTENTS

	Engl./l	Russ.
The Organic Synthesis Industry of the USSR - V. O. Reikhsfel'd	2281	2373
- A. A. Batsuev and A. S. Chernyak	2298	2373
Calculation of the Solubility of Carbon in Ferrosilicomanganese and Ferrosilicochromium, in the Quasi-Chemical Approximation - M. S. Petrushevskii and P. V. Gel'd	2304	2399
Kinetics of Titanium Oxidation by Oxygen at High Temperatures - V. I. Tikhomirov and V. I. D'yachkov	2310	2405
Kinetics of Dissolution of GaAs and GaSb Single Crystals in Hydrochloric Acid Solutions of Ferric Chloride - G. M. Orlova, L. L. Sveshnikova, and L. I. Tikhomirova	2317	2413
Crystallization and Thermal Expansion of Glasses in the System PbO-B ₂ O ₃ -ZnO - N. A. Zhdanets and V. S. Kheifets	2321	2418
Influence of Hydrothermal Treatment on the Thermal Spectra of Expanded Perlite - P. P. Budnikov and A. E. Rokhvarger	2325	2422
Solubility in the System KI-KOH-K ₂ CO ₃ -H ₂ O - G. S. Klebanov and G. Ya. Pinchuk	2329	2426
Catalytic Processes in Fluidized Catalyst Beds - I. P. Mukhlenov	2333	2431
Vapor Pressure of Solutions of Nitrogen Oxides in Nitric Acid of High Concentrations		
- M. M. Karavaev and V. A. Yarkovaya	2340	2439
Investigation of the Porous Structure of Silica Gels Prepared from Concentrated Silica		
Sols - V. Kh. Dobruskin, G. M. Belotserkovskii, V. F. Karel'skaya, and		
T. G. Plachenov	2344	2443
Rapid Chronoconductometric Method for Analysis of Mixtures of Sulfuric Acid with Various		
Acids in Aqueous Solutions - T. A. Khudyakova	2348	2448
Separation of Nonisomorphous Impurities from Inorganic Salts during Crystallization from		
Solutions - A. I. Shvartsval'd	2351	2452
Removal of Weakly Cocrystallizable Impurities from Substances during Crystallization		
from Solutions - G. I. Gorshtein	2356	2458
Coprecipitation of Copper and Manganese Hydroxides by Organic Precipitants		
- R. G. Lepilina, Yu Ballo, E. V. Kurlina, and L. S. Shumeiko	2359	2462
Coprecipitation of Cobalt and Manganese Hydroxides by Ammonia - R. G. Lepilina,		
- Yu. B. Ballo, and L. S. Shumeiko	2363	2466
Movement of Solid Material in a Spouted Bed - A. E. Gorshtein and I. P. Mukhlenov	2366	2469
Fundamental Kinetic Equation for Separation of Homogeneous Liquid and Gaseous Mixtures		
- E. Ya. Susanov	2370	2474
Determination of Mass-Transfer Coefficients in the Continuous Phase in Liquid-Liquid	9974	2478
Systems in a Flow Mixer - S. Z. Kagan, Yu. N. Kovalev, and V. I. Il'in	4379	2478
	10	Contd

Contents

ZHURNAL PRIKLADNOI KHIMII Vol 40, No 11, 1967

(continued)

	Engl./	/Russ.
Behavior of Graphite Anodes under the Conditions of Electrochemical Production of Sodium Chlorate at Different Current Densities. Communication I-V. I. Éberil'		
and T. S. Filippov	2377	2482
G. N. Razygraeva Detection of Organic Compounds with the Aid of Positive Corona Discharge in Hydrogen	2383	2488
 V. Z. Lakshtanov, A. V. Markevich, and S. L. Dobychin	2387	2492
N. P. Fedot'ev, P. M. Vyacheslavov, and A. I. Muntsiyan	2391	2497
Z. N. Shemyakina	2395	2501
Microscopy - A. E. Pereverzev, D. A. Vlasov, and V. D. Chernykh	2399	2506
Reactions of Dicarboxylic Acids with Dilute Sulfuric Acid – R. A. Kiseleva and M. S. Dudkin Separation of Alkyl (Thioalkyl) phosphonates on Alumina – A. N. Beresnev,	2405	2513
T. I. Kagorlitskaya, S. Z. Ivin, V. K. Promonenkov, and T. E. Vlasova Various Methods of Removing Formic Acid from the Products of Trimethylolpropane Synthesis – L. S. Genender, M. M. Ketslakh, A. I. Ratanova, D. M. Rudkovskii,	2412	2521
F. A. Éppel', and M. P. Vysotskii	2416	2525
- I. S. Okhrimenko and G. A. Smirnov	2421	2531
and Diacetyl Peroxide - G. F. Nichugovskii, É. V. Vinogradova, and A. P. Zozulya Synthesis of Intermediates for Production of Heat-Resistant Polymers (Chloromethylation	2425	2536
of Diphenyl Oxide) - E. P. Tepenitsyna, M. I. Farberov, and A. P. Ivanovskii	2429	2540
Preparation and Certain Properties of "Pseudothiocyanogen" - A. P. Antykov	2435	2547
M. M. Ketslakh, A. I. Ratanova, D. M. Rudkovskii, and F. A. Éppel'	2440	2552
O. K. Lyashenko	2443	2555
Degradation of Cellulose in Hot Alkali – Yu. V. Brestkin	2449	2562
BRIEF COMMUNICATIONS Influence of the Composition of Ferrosilicomanganese and Ferrosilicochromium on the		
Activity Coefficient of Carbon — M. S. Petrushevskii and P. V. Gel'd Decomposition of Kingisepp Phosphorite by Phosphoric Acid — M. E. Pozin, D. F. Zhil'tsova,	2454	2568
G. S. Odintsova, and R. T. Petrova	2457	2571
Pilot Plant Preparation of Ferrocene - V. I. Malakhov, N. N. Palitsyn, and E. M. Piskunova Properties of Solutions of Certain Uni- and Bivalent Metal Nitrates - P. I. Protsenko,	2461	2574
O. N. Razumovskaya, and T. I. Ivleva.	2463	2576
Recrystallization in a Boiling Solution - I. G. Bazhal and O. D. Kurilenko Standard Thermodynamic Functions of Certain Nitrites, Nitrates, and Chlorides	2466	2579
- V. F. Plekhotkin	2470	2583
Aluminates over Wide Ranges of Temperature and Concentration — V. P. Mashovets, V. V. Kurochkina, N. V. Penkina, L. V. Puchkov, and M. K. Fedorov	2473	2587
Vapor Pressure of Concentrated Solutions in the System NaOH-H ₂ O - V. P. Mashovets,		
L. V. Puchkova, and R. P. Matveeva	2475	2588
V. I. Baranova, and I. S. Lavrov	2478	2591
Available From Consultants Bureau	(0	ontd)

CONTENTS

Engl./Russ. Kinetics of Dissolution of Orates in Mineral Acid Solutions - V. M. Imamutdinova 2481 2593 Rates of Translation of Native Borates in H₃PO₄ Solutions - V. M. Imamutdinova...... 2484 2596 Additive a reperties of the Heats of Vaporization and Solution of Organic Compounds 2487 2598 Influence of the Transferred Substance and of the Direction of Mass Transfer on Holdup and Height of a Transfer Unit in a Sloping Pulsed Extractor - F.S. Bolotnikov 2492 2602 Flow of Elasticoplastic Thixotropic Materials (Dye and Pigment Pastes) out of a Vibratory Feeder - É. O. Reger, P. G. Romankov, and N. B. Rashkovskaya 2495 2605 Preparation of Galacturonic Acid from Mucic Acid with the Use of Ion Exchangers - T. K. Gaponenkov and K. I. Serdechnaya 2498 2608 Investigation of the Xylouronide from Aspen Wood - V. I. Sharkov, N. I. Kuibina, and Yu. P. Solov'eva..... 2500 2609 Synthesis of 5-Aminocaproic Acid - M. A. Popov.................... 2503 2612 Formation of a Surface Layer and Its Influence on the Process Kinetics in Absorption of 2504 2613 Carbon Dioxide by Solutions of Organic Bases. Communication I - I. P. Lychkin... Dependence of the Spot Area and of the Degree of Sorption on Chromatographic Paper on the Intermolecular Distance of a Substance in Solution - N. I. Plekhanov 2508 2617 Intermolecular Distance of a Dissolved Substance as a Factor Determining Sorption on a Smooth Sorbent Surface - N. I. Plekhanov..... 2511 2619

Available From Consultants Bureau

The Russian press date (podpisano k pechati) of this issue was 11/1/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.



Journal of Applied Mechanics and Technical Physics

The Faraday Press cover-to-cover translation of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki

Number 5 · September-October 1965 **Contents** Editorial Board Plasma Oscillations of an Electron Beam in an External Zhurnel Priklednoi Mekho Electric Field, R. Z. Muratov and M. V. i Takhnichaskoi Fiziki Invariant Solutions of the Equations of a Multicomponent Academy of Sciences USSR Charged-Particle Beam. V. A. Syrovoi...... Decay of Longitudinal Plasma Oscillations to Ion-Sound Oscillations, V. A. Liperovskii and V. N. Yu. N. Rabotnov. Editor-in-Chief On the Periodic Structure of a Stationary Rarefied Plasma, P. Va. Kochina R. Ya. Kucherov and L. E. Rikenglaz Associate Editor Heating of a Medium as a Result of Joule Energy Dissipation. I. I. Novikov. A. B. Vatazhin Associate Editor Influence of the Walls on Overheating Instability in a P. V. Kharlamov. Magnetohydrodynamic Channel. A. G. Kulikovskii and Corresponding Secretary 22 E. I. Grigolyuk Two-Dimensional Flow of a Perfect Conducting Gas in A. A. Koval'skii Crossed Electric and Magnetic Fields. L. S. Kozechenko I. V. Vysotskaya, A. L. Genkin, and M. L. S. S. Kutateledze Some Problems of Nonisothermal Steady Flow of a Viscous R. Z. Segdeev R. I. Selcukhin Fluid, S. A. Bostandzhyan, A. G. Merzhanov, and S. I. Khudyaev. S. A. Khristianovich On the Theory of Pulse Discharge in a Liquid. On Radiative Heat Transfer in a Plane Layer of an Absorb-Faraday Advisory Editors ing Medium. N. A. Rubtsov......... R. C. Coss Vibrational Creep of Polymer Materials. G. L. Barenblatt, State University of New York Yu. I. Kosyrev, N. I. Malinin, D. Ya. Paviov, and at Stony Brook T. F. Irvine, Jr. Fields of Randomly Distributed Dislocations and Force State University of New York Dipoles in an Infinite Blastic Anisotropic Medium. at Stony Brook

Available From The Faraday Press, Inc.

I. A. Kunin......

Single Issue: \$35

Annual Subscription: \$150

© 1987 by The Faraday Press, Inc.

All rights reserved. This sublication or parts thereof may not be reproduced in any form without permission of the publisher.

The Faraday Press, Inc.

84 FIFTH AVENUE, NEW YORK, N. Y. 10011

ZHURNAL PRIKLADNOI MEKHANIKI I TEKHNICHESKOI FIZIKI No 5, September-October 1965

On the Theory of Diffusion Relaxation in Polycrystals. B. M. Darinskii and		
T. D. Shermergor	84	54
Spontaneous Propagation of Cracks in Lithium Fluoride Single Crystals.		
A. M. Mikhailov	90	58
An Estimate of the Interaction of a Checkerboard Array of Cracks. V. Z. Parton	94	61
Analysis of Shakedown of Noruniformly Heated Elastoplastic Bodies.		
V. I. Rozenblyum	98	64
On the Stability of the Flow of a Viscoelastic Fluid Down an Inclined Plane.		
A. T. Listrov	102	67
Kinetics of Gaseous Expansion of Porous Materials, E. Ya. Mikhlin	106	70
Injection of Electron Beams from a Vacuum into a Gas Through a Gasdynamic Window.		
A. M. Trokhan	108	72
On Rayleigh-Taylor Z-Pinch Instability. M. G. Nikulin	112	75
Cylindrical Waves of Finite Amplitude in a Rarefied Plasma. Yu. A. Berezin	116	78
Magnetic Field Capture and Plasma Containment in Experiments with a Collisionless		
Shock Wave. A. M. Iskol'dskii, R. Kh. Kurtmullaev, Yu. E. Nesterikhin,		
V. I. Pil'skii. and A. G. Ponomarenko	118	80
Variation of the Electrical Conductivity of an Ionized Gas in the Initial Section of a		
Plane Duct. Ya. S. Uflyand and I. B. Chekmarev	120	82
Temperature Measurements Behind Detonation Fronts in Gases, R. I. Soloukhin and		
S. Zh. Toktomyshev	124	84
Measuring the Velocity of a Gas Wake in a Shock Tube from the Induced Electro-		
motive Force, R. V. Vasil'eva	127	87
Calculation of the Energy of a Shock Wave in Water. L. P. Orlenko and		
L. P. Parshev	130	90
Potential Distribution Along the Arc in a Vortex-Stabilized Plasma Generator.		
G. Yu. Dautov, Yu. S. Dudnikov, M. F. Zhukov and M. I. Sazonov	132	92
Distortion of Energy Spectrum of Decaying Isotropic Turbulence Due to Suspended		
Particles. Yu. A. Buevich and Yu. P. Gupalo	135	95
Integral Invariants of Two-Dimensional Rotational Gas Flows. K. P. Surovikhin	138	97
Effectiveness of Gas Film Cooling for a Turbulent Boundary Layer, E. P. Volchkov		
and V. Ya. Levchenko	142	100
A Possible Mechanism to Account for the Effect of Added Polymers on Turbulence.		
G. I. Barenblatt, I. G. Bulina, Ya. B. Zel'dovich, V. N. Kalashnikov, and		
G. 1. Sholomovich	147	103
On the Theory of Submerged Laminar Jets. M. A. Gol'dehtik and B. A. Silant'ev	149	105
Effective Thermal Conductivity of a Saturated Porous Medium in the Presence of		
Percolation. V. M. Entov	153	106
Movement of Ground Water in an Inhomogeneous Finite Aquifer in the Presence of a		
Reservoir Head and Irrigation, V. K. Rudakov	156	110
Investigation of High-Pressure Pulsed Jets by Means of Roentgenography.		
V. P. Borodin	160	113
Extension of Asymptotic Relative Laws of Friction and Heat Transfer to Nonisothermal		
Flow of a Gas at Finite Reynolds Numbers. A. L. Leont'ev and B. P. Mironov	162	111
Effect of Viscosity of Liquid Phase on Loss of Hydrodynamic Stability in Nucleate		
Bulk Boiling. V. M. Borishanskii and M. A. Gotovskii	706	111

Available From The Faraday Press, Inc.

ZHURNAL TEKHNICHESKOI PIZIKI
EDITORIAL BOARD

N. P. Bogoroditskii
A. M. Bonch. Bruevich
S. E. Bresler
V. M. Dukel'skii
N. V. Fedorenko
V. E. Gulant
G. A. Grinberg
A. P. Komstantinov
(Editor)
Director,
leffe Physicotechnical Institute
Academy of Sciencee of the USSR,
Leningrad
L. C. Loitsyanskii
G. V. Skornyskov
(Associate Editor)

Soviet Physics TECHNICAL PHYSICS

A Translation of "Zhurnal Tekhnicheskoi Fiziki"

(Russian Original Vol. 38, No. 1, pp. 1-204, January, 1968)

Vol. 13, No. 1, pp. 1-148

July, 1968

CONTENTS

		PAGE	RUSS.
149		PAGE	PAGE
Semiempirical Calculation of Inelastic Scattering of Electrons on Atoms.			
A. V. Eletskii and B. M. Smirnov	(T)	1	3
Surface Waves in a Current-Carrying Plasma Bounded by Conducting Walls.			
Yu. B. Ivanov and E. E. Lovetskii	(E)	5	8
Flute Instabilities in a Rarefied Plasma with Uncompensated Space Charge.			
II. A. V. Timofeev	(T)	9	14
Formation of Solitons. Yu. A. Berezin	(T)	16	24
Investigation of a Steady-State Microwave Discharge in a Magnetic Field.			
V. N. Budnikov, N. I. Vinogradov, V. E. Golant, and A. A. Obukhov	(E)	19	28
Theory of Electrodynamic Plasma Acceleration by Inductive Energy Storage.	•		
V. M. Gurov and N. A. Khizhnyak	(T)	25	36
Electrodynamic Acceleration of a Plasma in a Conical Electrode Source.	_		
N. A. Khizhnyak, B. G. Safronov, and V. L. Vereshchagin	(T/E)	28	40
Energy Loss of a Modulated Axial Current in a Bounded Magnetoactive			
Plasma. A. A. Vodyanitskii and A. N. Kondratenko	(T)	34	48
Focusing of a Beam of Fast Charged Particles in an Electrostatic Mirror			
with a Cylindrical Field. V. V. Zashkvara	(T)	41	59
Coupled Neodymium-Glass Lasers. I. A. M. Bonch-Bruevich, S. E. Potanov,			
and Ya. A. Imas	(E)	44	63
Effect of the Longitudinal Dimension of the Active Material on the Generation			
of Axial Modes in Lasers. S. G. Zeiger	(T)	48	68
Radiation Kinetics of an Optical Resonator with Modulated Q Factor. I.			
A. M. Ratner and V. S. Chernov	(T)	55	77
Beam-Plasma Discharge in a Weak Magnetic Field. S. M. Krivoruchko			
and Yu. V. Medvedev	(E)	61	87
Depolarization of Particles in Synchrocyclotrons or Cyclotrons.			
N. K. Abrosimov and G. V. Osipov.	(T)	65	93
Excitation of Uniform and Periodic Waveguides by External Currents.			
V. A. Solntsev	(T)	70	100
Forces on an Electron Beam in a Traveling Wave Tube. V. A. Solntsev	(T)	76	109
Stability of a Modulated Beam in a Disk-Loaded Waveguide. V. I. Kurliko	(T)	82	118
		(0	on td)

Available From The American Institute of Physics Vol 13, No 1, July 1968

ZHURNAL TEKHNICHESKOI FIZIKI Vol 38, No 1, 1968

Vol 38, No 1, 1968			RUSS.
•		DAGE	PAGE
		PAGE	FAGE
Current Pulse Contraction in Multisection Linear Accelerators. A. I. Zykov,			
I. A. Grishaev, V. A. Vishnyakov, N. I. Mocheshnikov, and G. D. Kramskoi.	(E)	89	129
Pulse Truncation in a Two-Section Linear Accelerator. V. A. Vishnyakov,			
A. I. Zykov, V. M. Grizhko, and I. A. Grishaev	- (E)	92	133
Particle Dynamics in a Waveguide Buncher. V. A. Vishnyakov			
and E. K. Ostrovskii	(T / E)	96	139
EH ₁₁ Hybrid Mode in an Iris-Loaded Waveguide. V. I. Kotov			
and I. R. Yampol'skii	(E/T)	99	143
Theory of Microdischarges in Interelectrode Gaps. V. I. Gerasimenko	(T)	107	155
Anomalous Energy Losses of an Accelerated-Proton Beam in an Arc			
Discharge. É. Z. Tarumov, Yu. L. Bakshaev, V. L. Borzenko,			
V. S. Pen'kina, and V. I. Rozanova	(E)	113	163
X-Ray Emission by a Vacuum Spark. S. V. Lebedev	(E)	119	171
Quantum Yields of the Surface X-Ray Photoeffect at 1-10 Å. L. G. Eliseenko,			
V. N. Shchemelev, and M. A. Rumsh	(E)	122	175
Theory of Three-Electrode Electron Guns with Longitudinal Compression.			
N. S. Zinchenko	(T)	130	184
Gas Mixtures for Ignitrons for High-Frequency Use. V. N. Vasil'ev			
and L. G. Sinel'nikova	(E)	135	190
Use of the Penning Gauge for Detection of Charged Particles and Gamma Rays.			
B. V. Bobykin, V. M. Kel'man, and L. M. Nazarenko	(E)	138	194
The Production of Constant Ultrahigh Magnetic Fields. V. A. Ignatchenko			
and M. M. Karpenko	(T)	143	200

Available From The American Institute of Physics Vol 13, No 1, July 1968

Soviet Physics TECHNICAL PHYSICS

A Translation of "Zhurnal Tekhnicheskoi Fiziki"

(Russian Original Vol. 38, No. 2, pp. 205-400, February, 1968)

Vol. 13, No. 2, pp. 149-294

August, 1968

CONTENTS

		PAGE	RUSS. PAGE
Periodic Ion-Acoustic Waves. V. I. Petviashvili	(T)	149	205
Structure of Shock Waves in a Weakly Ionized Plasma. A. D. Pataraya	(T)	155	213
The Excitation of Ion Cyclotron Oscillations in a Plasma Located in an External	147	100	410
Electric Field. B. Milich and D. Zyunder	(T)	160	220
Stability Theory for a Weakly Ionized Plasma in an External Electric Field.	107		
B. Milich and A. A. Rukhadze	(T)	166	229
Induced Scattering of Quasilongitudinal Waves in Magnetoactive Plasma. I.	•-•		
A. P. Kropotkin, V. V. Pustovalov, and N. V. Sholokhov	(T)	173	240
Cerenkov Emission in Gyrotropic Crystals. V. N. Kurdyumov	(T)	181	250
Negative Group Velocity in a Magnetoactive Medium. V. N. Kurdyumov	(E)	188	260
Effect of Impurities on the Energy of Fast Particles in a Coaxial Source.			
V. P. Goncharenko and V. M. Mishchenko	(E)	191	264
Distribution of Potential in a Short Tube of Rectangular Cross Section			
Containing a Ribbon-Shaped Beam. O. D. Barantseva	(T)	194	268
Calculation of the Internal Structure of Intense Axially Symmetric Nonlaminar			
Fluxes of Charged Particles with Zero Thermal Velocities.			
V. S. Kuznetaov.	(T)	198	274
Microwave Investigation of Plasma Turbulence in a High-Current Toroidal			
Discharge. M. M. Larionov and V. V. Rozhdestvenskii	(E)	202	279
Vaccum System of Ogra-II. S. S. Butusov, V. P. Zubarev, V. P. Konyaev,			
E. A. Maslennikov, A. N. Nekrasov, Yu. M. Pustovoit, V. S. Svishchev,			
and I. A. Chukhin.	(E)	207	285
Deformation of Inhomogeneous Plasma Flux by Ponderomotive Forces of			
Electromagnetic Field. G. S. Luk'yanchikov, M. D. Raizer, and A. G. Frank	(E/T)	215	296
Damage to Electrode Surface in Vacuum Breakdown. I. L. Gufel'd	(E)	221	304
Stationary Electric Arc in a Narrow-Slit Chamber. S. A. Kurkov	(T)	225	309
Initial Stage of an Electrical Discharge in Water. V. N. Pastukhov	(T/E)	232	318
Dynamics of the Anode Spot in a Low-Current Arc. I. I. Bellis and N. M. Zybova.	(E)	235	333
Study of the Mechanism for Hydrogen Sorption by Condensed Layers of CO ₂ .	45		
V. B. Yuferov, R. F. Bulatova, P. M. Kobsev, and V. S. Kossa	(E)	234	326
Annalysis Show the Annalysis Books A and A		(1	Contd)

Available From The American Institute of Physics Vol 13, No 2, August 1968

ZHURNAL TEKHNICHESKOI FIZIKI Vol 38,No 2, 1968

101 30,110 2, 1,900			
		PAGE	Russ, Page
Study of the Oxidation of Alkali Metal Impurities on Platinum and Tungsten			
Surfaces by the Secondary Ion-Ion Emission Method. L. P. Rekovs,	/5 11		•••
A. D. Abramenkov, and Ya. M. Fogel'	(E)	242	331
Metastable Atoms in a Pulsed He-Ne Laser. E. I. Shtyrkov			
and N. P. Larionov	(E)	248	339
Theory of the Resonant-Feedback Laser. V. S. Letokhov and B. D. Pavlik	(T)	251	343
The Amplification of a Modulated Light Signal Using a Gas Laser.			
É. E. Fradkin and Z. K. Yankauskas	(T)	260	356
Electrical and Optical Properties of Nonlinear Zinc Sulfide Semiconductors.			
M. V. Fok and Yu. P. Chukova	(E)	267	366
	••		
BRIEF COMMUNICATIONS			
Mass Spectrometer with Two-Dimensional Magnetic Prism and Quadrupole			
Lenses. T. Ya. Fishkovs, E. V. Shpak, and S. Ya. Yavor	(T)	274	375
Possibility of Flexural Capillary Waves in Solids. I. V. Ioffe and A. I. Sast	(T)	276	377
Steady State in a Parametric Light Generator with a Backward Wave.			
A. S. Gorshkov, V. F. Marchenko, and A. F. Tselykovatii	(T)	278	379
Excitation of an Azimuthal Current in Stationary Rotation of a Conducting			
Fluid. É. M. Drobyshevskii	(T)	280	381
	•-•		
LETTERS TO THE EDITOR			
Low-Voltage Pulsed Argon-Ion Laser. N. F. Kitaeva and Yu. I. Osipov	(E)	282	384
Reduction of the Equations of Nonlinear Electrodynamics to Equivalent			
Linear Equations. P. M. Kolesnikov	(T)	285	387
Turbulence in a High-Current Toroidal Discharge. M. M. Larionov			
and V. V. Rozhdestvenskii	(E)	288	391
Plasma Acceleration in a Conical Induction Source. V. A. Churaev.	1 ,		- · -
N. A. Khizhnyak, and B. G. Safronov	(T/ E)	291	396
over the contraction of the cont	1-/ -/		

Available From The American Institute of Physics Vol 13, No 2, August 1968 A. I. Ansel'm
A. S. Borovik-Romanov
L. N. Pubretsov
L. P. Gor'kov
O. V. Konstantinov
M. I. Kornfeld
(Associate Kditar)
L. I. Korovin
(Secretary)
M. I. Korsinskii
M. A. Krivoglas
G. V. Kurdyumov
I. M. Lifahita

A. I. Ansel'
S. M. Ryvkin
G. A. Smolenskii
V. M. Tuchkevich
B. K. Vainshtein
V. S. Vavilov
L. F. Verenhchagin
S. N. Zhurkov
(Editor)
Lenigrad State University
V. P. Zhuse

Soviet Physics SOLID STATE

A Translation of "Fizika Tverdogo Tela"

(Russian Original Vol. 10, No. 2, pp. 337-664, February, 1968)

Vol. 10, No. 2, pp. 269-522

August, 1968

CONTENTS

;		PAGE	RUSS. PAGE
Dynamics of EPR, Electron Nuclear Double Resonance (ENDOR), and NMR			
for Centers Having S = I = 1/2. V. L. Hochmann, V. Ya. Zevin, and			
B. D. Shanina.	(T)	269	337
Effects of Optical Phonons on the Shape of the Wannier-Mott Exciton			
Absorption Band. S. A. Moskalenko, M. I. Shmiglyuk, and B. I. Chinik.	(T)	279	351
Effect of the Kinematic Interaction on Spin-Phonon Excitations in a			
Paramagnet. E. M. Iolin	(T)	285	359
Interaction of Point Defects Taking Account of Volume Dispersion.	(771)		
V. G. Kosilova, I. A. Kunin, and É. G. Sosnina	(T)	291	367
Dislocation Interactions Taking Spatial Dispersion into Account.	ann.	005	985
V. E. Vdovin and I. A. Kunin.	(T)	297	375
Role of Phase Fluctuations in Ferroelectric Phase Transitions in Solid	AC (E)	204	385
Solutions with Perovskite-Type Structure. V. Ya. Fritsberg Features of the Macroconcentration of Plastic Deformation in Zinc Single	(T /E)	304	363
Crystals during Alternating Torsion. F. P. Rybalko, V. G. Zubkov,			
and R. I. Shevchenko	(E)	308	391
Absorption Spectra of Exciton-Impurity Complexes in Silicon Carbide.	(2)	000	001
I. S. Gorban', A. P. Krokhmal', and S. N. Rud'ko	(E)	312	396
Impurity Effect in the Theory of Indirect Exchange. F. I. Muftakhova,	\ - /		
A. N. Men', and G. A. Smolenskii	(T)	315	399
Investigation of the Superconducting Properties of Nb-Ti Alloys.			
I. A. Baranov, K. I. Boikova, Z. A. Guts, L. A. Kurakina, A. V. Kogan,			
A. A. Fogel', S. I. Tsypkin, and R. S. Shmulevich	(E)	318	404
Mechanism of Sputtering of Solids. B. M. Gurmin, T. P. Martynenko,			
and Yu. A. Ryzhov	(E)	324	411
Low-Frequency Vibrations in the Ferroelectric Crystal Potassium			
Dihydrogen Phosphate (KDP). A. I. Stekhanov and E. A. Popova	(E)	327	415
Sound Dispersion in Superconducting Semiconductors. V. V. Vas'kin			
and V. Ya. Demikhovskii	(T)	330	419
Microwave-Frequency Dielectric Properties of Divalent Europium Oxides.			
A. A. Samokhvalov, S. A. Ismailov, and A. Ya. Afanas'ev	(E)	334	425
Observation of the Bauschinger Effect during Twinning of Calcite Crystals.	(70)		400
R. I. Garber and E. I. Stepina	(E)	337	429
Magnetic Resonance of I ¹²⁷ Nuclei in Nai Crystals. Yu. A. Grinchenko,	/E's	341	434
E. R. Dobrovinskaya, and V. L. Timan	(E)		
		(0	ontd)

Available From The American Institute of Physics Vol 10, No 2, August 1968

FIZIKA TVERDOGO TELA Vol 10, No 2, 1968

701 10, NO 2, 1900			
		PAGE	RUSS. PAGE
Temperature-Induced Changes in the 575 cm-1 Band at the Phase Transition			
of Ferroelectric Crystals of the Triglycine-Sulfate Group. E. K. Galanov			
and L. D. Kislovskii	(E)	345	439
and P. Kishan	(E)	348	442
Light Scattering near a Second-Order Phase Transition in a Dielectric Magnet. V. S. L'vov	(T)	354	451
Nonlinear Theory of Sound Amplification in a Piezoelectric Semiconductor	127	501	***
with Traps. R. Katilyus	(T)	359	458
N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova	(E)	365	467
Electron Paramagnetic Resonance and Thermoluminescence of irradiated Single Crystals of the Aluminosilicates NaAlSi ₂ O ₈ and LiAlSiO ₄ . V. A. loffe			
and I. S. Yanchevskaya	(E)	370	472
Nonlinearity of the Polarization of Rochelle Salt in Strong Electric Fields.	/10\	075	470
V. V. Gladkii, E. I. Marchenko, and A. S. Sonin	(E)	375	478
and A. A. Rukhadze	(T)	378	482
Orientational Changes of Structure in Polyethylene. S. Nizamidinov and A. I. Slutsker	(E)	382	487
Anharmonicity of Thermal Vibrations in Metals and Ionic Crystals.	em / m)	200	400
T. A. Kontorova	(T/E)	389	496
Activated with Pr3+ Ions. A. M. Morozov, E. G. Reut, and A. I. Ryskin	(E)	393	502
Thermionic Emission of Tungsten in a Flux of Barium and Cesium Atoms. V. T. Bazanov, N. G. Ban'kovskii, and O. M. Mul'tanovskaya	(E)	397	507
Experimental Determination of the Thermal Vibration Spectrum of White Tin.	(-,		
B. A. Kotov, N. M. Okuneva, and É. L. Plachenova	(E)	402	513
D. A. Kichigin, V. P. Lobachev, and G. E. Chernyak	(E/T)	406	518
Formation of New Local Centers in CdS Single Crystals in the Presence of Free Electrons and Holes. N. E. Korsunskaya, I. V. Markevich, and			
M. K. Sheinkman	(E)	409	522
Relaxation Processes in BaTiO ₃ Single Crystals Subjected to Unidirectional			
Mechanical Pressure Pulses. E. V. Sinyakov, S. A. Flerova, and G. V. Barinov	(E)	415	529
Effective Magnetic Fields at Fe ⁵⁷ and Sn ¹¹⁸ Nuclei in Ferrite Garnets with High	1.		
Concentrations of Nonmagnetic Sn ⁴⁺ Ions. I. S. Lyubutin, E. F. Makarov, and V. A. Povitskii	(E)	419	534
Tunneling in Crossed Electric and Magnetic Fields in Gallium Antimonide.			
V. M. Stuchebnik, v. V. I. Tikhonov, and V. I. Fistul' Anisotropy of Two-Photon Absorption in Optical Excitation of CdSe	(E)	423	539
Semiconductor Lasers. A. Z. Grasyuk, I. G. Zubarev, and A. N. Mentser	(E/T)	437	543
Diffusion, Solubility, and Influence of Copper on the Electrical Properties of Indium Arsenide. B. I. Boltaks, S. I. Rembezs, and			
M. K. Bakhadyrkhanov	(E)	432	850
Calculation of the Ferruelectric Vibration Mode for Single Crystals of SrTiO ₃ and BaTiO ₃ . L. B. Meisner and A. S. Sonin	(T/E)	438	557
Young's Modulus of Sapphire Whiskers. S. Z. Bokshtein, G. N. Zaitsev,	\-/ -/		
M. P. Nazarova, and I. L. Svetlov	(E)	443	564
D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin	(E)	447	569
			(Contd)

Available From The American Institute of Physics Vol 10, No 2, August 1968

FIZIKA TVERDOGO TELA Vol 10, No 2, 1968

VOI 10, NO 2, 1966			
			RU88,
		PAGE	PAGE
Interaction of Electric Dipoles through the Phonon Field. R. V. Saburova	(T)	450	572
External Field Amplification Factor and Relaxation Time of Fe ⁵⁷ Nuclei during			
the Observation of Nuclear Magnetic Resonance Signals in Nickel Ferrite.			
L. A. Rassvetalov, S. P. Repnikov, and V. B. Ustinov	(T/E)	453	576
Scattering of Light by Charged Centers in Semiconductors. A. A. Grinberg			
and N. I. Kramer.	(T)	458	582
Calculation of Line Width for Raman Scattering of Light by a Monomolecular			
Chain. L. G. Zhidkov.	(T)	464	590
Paramagnetic Resonance and Spin-Lattice Relaxation of Er3+ and Tb3+ Ions			
in the Crystal Lattice of CaWO4. A. A. Antipin, A. N. Katyshev,			
I. N. Kurkin, and L. Ya. Shekun	(E)	468	5 9 5
Parametric Interaction of Ultrasonic and Magnetic Oscillations in a			
Ferromagnet. V. D. Burkov, A. V. Vashkovskii, and V. N. Kil'dishev	(E)	475	605
Nonlinearity of the Acoustoelectric Interaction in CdS. É. P. Garshka,			
V. I. Samulionis, BP. P. Ketis, and A. S. Zhyulpa	(E)	480	611
Relaxational Polarization in Defect Solid Solutions of Perovskite-Type			
Ferroelectrics. G. V. Bois and N. A. Mikhailova	(E)	484	616
Magnetoelastic Instability during Uniform Precession in a Ferromagnet.			
R. G. Khlebopros and V. E. Shapiro	(T)	487	620
Instability of a Temperature Gradient in a Highly Conductive Crystal of Low			
Symmetry. L. É. Gurevich and E. F. Shender	(T)	491	625
Relaxational Polarization in Semiconducting Barium Titanate. G. V. Bois			
and N. A. Mikhailova	(E)	495	630
BRIEF COMMUNICATIONS			
Absorption of Sound in Crystals with Quasilocal States. B. I. Shklovskii	(T)	498	634
Some Features of the Mandel'shtam-Brillouin Spin Effect in Ferromagnetic	• •		
Crystals. F. V. Lisovekii	(T)	500	636
Investigation of the Influence of Proton Bombardment on the Electrical	, ,		
Resistance of Thin Silver Films. V. V. Chechetenko, L. P. Tishchenko,			
and Ya. M. Fogel'	(E)	502	638
Investigation of Structure Defects in Lithium Fluoride by the Thermally	, ,		
Stimulated Electron Emission Method. G. G. Knab and A. A. Urusovskaya .	(E)	505	641
influence of Temperature on the Elastic Constants of a Te Single Crystal.			
Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev	(E)	507	643
Electron-Microscope Investigation of CdS Single Crystals Subjected to Heat			
Treatment. V. S. Babinchuk and V. V. Serdyuk	(E)	509	645
Scattering of Neutrons by Parametrically Excited Spin Waves. A. G. Gurevich,			
G. M. Drabkin, I. M. Lazebnik, E. I. Mal'tsev, I. I. Marchik,			
and S. S. Starobinets	(E)	511	647
Investigation of the Quadrupole Coupling of I ¹²⁷ Nuclei in Tellurium Crystals.			
K. V. Makaryunas and É. K. Makaryunene	(E)	514	650
Characteristic Features of the Structure of Copper Whiskers Deformed			
by Torsion. V. S. Postnikov, A. M. Belikov, A. T. Kosilov, S. A. Ammer,			
and V. I. Koltunov	(E)	516	652
Elastic Reflection of Electrons from Silicon Single Crystals. A. R. Shul'man,			
V. V. Korablev, and Yu. A. Morozov	(E)	518	655
Electron Diffraction and Electron Microscope Study of the Structure of Films			
of Condensed Carbon. B. T. Boiko, L. S. Palatnik, A. S. Derevyanchenko,			
ard Yu. M. Voronin	(E)	520	656

Available From The American Institute of Physics Vol 10, No 2, August 1968

Bakker Taken

INDEX TO AUTHORS

This index does not include authors listed in the cover-to-cover tables of contents.

- A -	Aoki, Shigeo	87
	Arakelyan, L.	_2
Ababarchuk, I. L. 50		74
Abe, T. 96		5
Abramov, A. I. 104		79
Abramov, R. V. 35		
Abritalin, V. I. 98		
Abugov, D. L. 119		
Adamov, I. V. 72		90
Adler, P. 115		
Afanas'yev, I. V. 76	•	71
Afanas'yev, V. G. 121		40
Airinei, S. 59		78
Akagawa, N. 87		58
Akhmanov, S. A. 62		10
Akhmedov, M. A. 50	• •	28, 29
Akhmetov, I. G. 77	Arslambekov, V. A	A. 75
Akimov, A. I. 113	Artem'yev, D. Ye.	. 61
Akimov, V. S. 121	Asada, M.	87
Akimovich, N. N. 35	Astier, J.	80
Aksel'rod, I. R. 62	Astrup, Mils C.	97
Akshanov, B. S. 97	Autin, B. V.	72
Alekhin, D. 91	Aver'yanova, T. I	4. 77
Aleksandrov, V. Ya. 42	Avetisyan, A.	61
Aleksapol'skiy, D. Ya. 68	Avgustinovich, K	. A. 100
Alekseyev, G. V. 112		121
Alekseyev, I. 4	Azol,	22
Alekseyev, Ye. 6	•	
Alekseyunas, B. 111	- B -	
Aleksin, V. F. 108		
Aleshin, A. 2	Babajanian, D. P.	. 42
Alexandru, S. 97		75
Aliyev, M. A. 41		91
Ali-Zade, P. G. 62		101
Alksne, V. I. 73	· · · · · · · · · · · · · · · · · · ·	57
Altamirano, Carlos 27		8
Althof, W. 83		58
Al'tovskiy, I. V. 109		
Altpeter, W. 85		37
Al'tshul', S. D. 91		i
Al'tshuller, I. 2	**** •	62
Amiot, Henri 19	•	43
Amosov, N. M. 40		3
Anan'yev, B. G. 44		63
Anderson, B. 97		8
Andras, S. 117		26
Andreyev, I. F. 90		55
Andreyev, V. A. 64		24
	, 77 Barabash, Yu. L.	24 89
	, , perenesit in pr	07

WY WASHING

Barasak, Antonin	65	Bergmann, P.	85	
Barashenko, V. S.	103	Berlyand, M. Ye.	35	
Barbashova, Zoya		Bermant, M. A.	30	
Ivanovna	39	Bermejo, Gonzalez	33	
Barbieri, T.	86	Bernard, E.	79	
Barinov, M. T.	30	Bernard, G.	65	
Barknecht, W.	52	Bersuker, I. B.	103	
Baron, V.	50	Bertinov, A. I.	61	
Bartenev, G. M.	74	Beumann, P.	46	
Barthoux, A.	52	Bezdek, Ladislav	88	
Bartkovskiy, I. I.	77	Bigosinski, Lech	97	
Barve, J.	53	Bikmatov, R. G.	· 48	
Basch, R.	116	Biller, H.	85	
Bashmakov, I. A.	62	Biryakov, O. V.	107	
Basilashvili, A. N.	64	Biryukov, O. B.	107	
Basov, N. I.	102	Bismark, H.	66	
Batayeva, T. F.	37	Bjorkroth, J.	88	
Batrakov, V. G.	77	Blaha, Vaclav	65	
Batrakov, Yu. V.	88	Blanter, M. Ye.	72	
Baturin, A. I.	73	Blazek, Bohuslav	15	
Batuyeva, I. V.	43	Bleahu, Marcian	59	
Batyayev, T. F.	37	Blyumberg, I. B.	100,	101
Bauchert, J.	116	Bobrov, A. I.	76	101
Bauer, A. E.	83	Bobrovskiy, G. A.	109	
Bauer, Klausdieter	45	Bochvar, I. A.	109	
Baum, V. A.	71	Bode, R.	53	
Baumann, J.	52	Bodrovski, Ye. M.	60	
al-Bazari, 'Afif	22	Boehringer, F. C.	54	
Bazhenov, M.	73	Boenisch, D.	85	
Beerwald, H.	115	Bogachko, N. I.	99	
Behrens, H.	120	Bogdanova, T.	31	
Bekoryukov, V. I.	37	Bogdanovich, O.	3	
Bela, F.	11	Bogolyubov, V.	71	
Belaya, T. P.	64	Bogorodskiy, M. M.	57	
Belinskaya, G. I.	113	Bogorov, V. G.	3	
Beljazo, V. A.	35	, Boguslavskiy, L.	111	
Belkin, V.	4	Bohm, G.	86	
Belli, N.	33	Bohm, K.	81	
Belohragina, L. S.	40	Bohringer, M.	66	
Belous, N.	5	Boikov, N. A.	60	
Belozercy, V. G.	69	Bokonga, Charles	20	
Belvaux, Yves	115	Bokser, O. Ya.	42	
Belyak, Yu. L.	56	Bolotin, V. V.	91	
Belyayev, A. L.	76	Bonch-Bruevich, V. L.	60	
Benes, V.	78	Bongard, S. A.	100	
Benoit, Joseph	22	Borel, Emil	89	
Bera, Stanislaw	10	Borisevich, N. A.	114	
Berces, T.	54	Boriskin, A. G.	48	
Bereanu, Severian	11	Borisova, L. G.	38	
Berezin, A. K.	108	Borodkina, M. S.	101	
Berezovskiy, A. A.	61	Borok, B. A.	74	
Berezyuk, F. A.	119	Borovik, Ye. S.	48	
Berg, A. I.	121	Borovoy, V. Ya.	110	
Berg, H.	53	Borowska, Janina	16	
Bergmann, F.	65	Borzdyka, A. M.	75	
			13	

Cieslar, R.

88

Ciundziewicki, B.	10	Dibakov, N.	3
Cizek, L.	78	Di Candia, A.	86
Class, G.	84	Dichtl, H. J.	81
Collongues, R.	52	Dietrich, H.	115
Comblin, Jose	28	Diiwel, D.	32
Comte, Roger	19	Dimitriyev, Yu. K.	63
Considera, K.	47	Dinev, Lyubomir	15
Cordova, Leonidas	27	Dinev, Mikhail	13
Coriou, H.	80	Dinkic, Dusan	12
Corrons Davila, Hugo	28	Dinulescu, Florica	16
Corvalan, Luis	27	Diouf, M. Abdou	20
Costain, C. C.	50	Dirkzwager, J. M.	101
Costin, Florence	12	Ditges, G.	81
Courtois, J.	29	Djamal, Bensnane	20
Courtois, Jacques	19	Dmitryeva, L. A.	73
Crisan, A.	16	Dmitryeva, V. A.	99
Crostini, R.	117	Dobrokhotov, Ye. I.	107
Cubillas, Vicente	28		115
capilles, vicence	20	Dohm, K. D.	47
- D -		Dolatkowski, A.	
- 0 -		Dolezal, R.	78, 94
Daddah Makaan Ould		Dolgosheina, B. A.	63
Daddah, Moktar Ould	21	Dolgov-Savelev, G. G.	111
Dahan, Mohamed	21	Dollfus, Olivier	28
Dahl, W.	85	Dollinger, F.	66
Damsker, D.	68	Donchenko, V. A.	110
Dang Thi Thanh	22	Dorman, L. I.	34
Danicic, Predrag	97	Dorn, Fritz	9
Danilkin, I. S.	111	Dorofeyev, A. N.	7
Danilov, A.	6	Draffehn, P.	9
Danilov, A. F.	48	Draganik, B.	10
Danilyak, I. A.	75	Draganov, B. Kh.	119
Dao Shih-yen	38	Drazan, Frantisek	94
Dashkov, A. N.	104	Dreier, H.	66
Daugello, A.	1	Drigo, G.	86
Davydov, S.	93	Drogatsev, D. A.	37
de Bersuder, L.	114	Drozdov, Ye. A.	63
Decroix, J.	79	Druzhinskiy, I. A.	90
de Fouquet, J.	80	Dubinin, V. M.	56
Deilmann, W.	79	Dubovich, I. V.	100
de Jaco, Aldo	19	Dubrovskaya, L. B.	50
Delahaye, Victor	94	Duca, Florin	12
de Leiris, H.	80	Dudnik, D. M.	77
Delimarskiy, Yu. K.	101	Duerrschnabel, W.	86
Del Re, A. A.	54	Dufour, H. M.	58
Denisov, V.	121	Dujceva, M. A.	
Denisyuk, Yu. N.	100	Dumler, S.	37
Denne, A.	85		62
Derkach, V. P.	98	Dumpelmann, R.	94
Derviz, Y. D.	98	Dunajsky, L.	114
Desre, P.	114	Duong Hong Hien	33
		Dupont,	94
Devienne, F. M.	114	Dupont, L.	69
Devienne, F. Marcel	114	Dushin, L. A.	97
Deych, A. N.	34	Dvizhkov, P. P.	40
Deyneko, P. S.	74	D'yachek, I. M.	93
Dhary, A.	21	Dyulgerov, Nikolay	13
		Dzektser, Ye. S.	31

- E -		Fischmeister, . H. F.	84	
_		Fitzer, E.	52	
Ebel, H.	86	Fogel, I. M.	113	
Ebeling, D.	116	Fontana, P.	54	
Ebinghaus, II.	116	Forch, K.	84	
Efremov, M.	5	Forizs, S.	88	
Ehrlenspiel, K.	95	Frank, H. P.	53	
Eisenblatter, J.	105	Frank, Pierre	18	
Eisenhuth, C.	85	Fridman, Yu. S.	36	
Engel, U.	66	Frieben, N.	55	
Enig, K.	32	Friedmann, W.	54	
Erdos, E.	67	Frishe, W.	85	
Ermischer, W.	105	Fritz, K.	52	
Escher, J.	46	Frkic, Roko	13	
Esser, Fred	116	Froelich, M. J. C.	22	
Etudier, M.	79	Frolov, S. D.	109	
Eudier, M.	81	Fruengel, P.	116	
Ewande, Daniel	21	Frumkin, A.	6	
Exner, H. E.	84	Fuchs, H.	45	
_		Fuentes, Norberto	24	
- F -		Fuga, Myqerem	8	
7 1		Fuglsang, Villy	17,	18
Fadeyev, N. I.	64	- •• · · · · ·	20	
Fahlenbrach, II.	83, 85	~ · · · · · · · · · · · · · · · · · · ·	95	
Falaleyev, P. P.	2	Fujita, Y.	96	
Faninger, G.	86	Fuks, I. G.	74	
Faucherre, J.	52	Fullgrabe, A.	32	
Fayn, V. S.	39 54	Fumelli, M.	114	
Federay C. B.	54 74	Fundora, Orlando	28	
Federov, G. B.	74	Furukawa, Tomozo	105	
Fedorchenko, V. D. Fedorenko, N.	108 3	C		
Fedorov, A. S.	112	- G -		
Fedorov, V. A.	42	Cables D	07	
Fedorov, V. V.	121	Gabler, R.	83	
Fedotova, O. Ya.	77	Gabor, Janosi Gadow, F.	17 9	
Fegerl, S.	85	Gadzhiyev, Sh. S.	71	
Felgas, H.	19	Gahn, Kerl Heinz	122	
Fenyuk, B. K.	41	Gajewski, T.	118,	120
Feodos yev, V. I.	112	Galaktionov, B. V.	106	120
Ferenc, K.	67	Gallois, V.	79	
Fesenko, V. V.	80	Galyun, N. S.	110	
Fesenkov, V. G.	34	Gambaryan, N. P.	51	
Fetter, K.	46	Gandin, L. S.	36	
Fica, R.	45	Garamvolgyi, Istvan	10	
Fichtner, J.	66	Garaudy, Roger	18	
Filippov, I. F.	99	Gardini, E.	86	
Filippov, V. F.	69	Gargov, K.	121	
Fintescu, D.	97	Garnier, J. J.	79	
Fioshin, M. Ya.	49	Garraud, Rene		19
Fischbeck, K.	54	Gasiorowski, S.	33	- -
Fischer, E.	94	Gaussot, D.	94	
Fischer, F.	116	Gavrilov, G. A.	98	
Fischer-Schlenn, W.	101	Gaynullina, S. Kh.	92	
		•		

Geikhman, I. L.	92		Gourdon, C.	107
Gel'd, P. V.	50		Govorkov, V. V.	90
Gel'fand, F. M.	44		Govorun, N. N.	103
Gelfenbein, S. P.	91		Grabner, A.	66
Genes, V. S.		41	Graniceanu, M.	70
Gengenback, O.	94		Grashin, Yu. M.	102
Gerasimova, T. N.	101		Grass, G.	115
Gerhardsson, G.	48		Gratsianov, Ya. A.	61
Gershun, A. A.	110		Grdina, Yu. B.	70
Giacomelli, G.	79		Grebeshkova, I. D.	74
Gilinskiy, S. M.	118		Griesinger, Hermann	65
Gilles, J. C.	52		Grigor'yants, Ye. A.	56
Gilli, P. V.	9		Grin', V. T.	110
Gilzin, K. A.	68		Grishkov, N.	6
Ginevskiy, A. S.	111,	112	Gritsenko, M. B.	30
Ginzburg, F. G.	42		Grmela, V.	78
Ginzburg, S. A.	64		Grobner, P.	73
Girard, J. P.	114		Gromov, B. V.	44
Glazkova, A. P.	48		Grosjean, J.	22
Glazova, V. V.	113		Gross, L. G.	76
Glinchuk, K. D.	113		Gross, R.	85
Glowiak, B.	38,	55	Grueneberg, Gerhard	9
Gluscevic, Bozidar	13	33	Grundig, II.	116
Gluxman, M. Kh.	77		Grzeszczak, Jerzy	15
Gnedenko, B. V.	8		Gubernskiy, V. I.	121
	34		Gubler, Ye. V.	40
Gnevysev, M. N.	116		Gudina, K. K.	103
Goedecke, W.	120		Gudkov, S. I.	73
Gokhshteyn, D. P.	106,	107	Guerche, Christian	18
Golant, V. Ye.	100	107	Guigues, F.	52
Gol'danskiy, V. I.	103	109	Guillard, F.	80
	118	103	Gunin, V. P.	68
Goldenberg, S. A. Gol'dman, R. S.	62		Gunther, J.	80
Goldshtein, L. B.	73		Gurmin, B. M.	109
Golikov, A. N.	56		Gurnov, O. F.	8
Golovanov, L. B.	103		Gusak, Ya. M.	68
Golovchinskaya, Ye.			Guscina, M. V.	36
Golovin, G. M.	71		Gusev, N. F.	91
Golynakaya, R. M.	104		Gusev, O. A.	121
	8		Gusev, Yu. M.	61
Gombosuren, D. Gomez, Arosemena	25		Gushchina, L. A.	35
	17		Gushcho, Yu. P.	100
Goncalves, E. F.	88		Guterman, I. G.	35
Goncharenko, G. N.	59		Gutierrez, Carlos Mari	
Goncharov, V. L.	29		Gutierrez, Rosendo	27
Gonzalez, Eugenio	59		Gutsov, Iv.	78
Goranskiy, G. K.	39 30		dutsov, iv.	70
Gorbunov, G. M.	77		- 11 -	
Gorbunov, S. A.	7		- 11 -	
Goremykin, M.	81		Usawi Rartil	120
Gorissen, E.	51		Haard, Bertil	105
Gorokhovskiy, V. M.	111		Haase, G. Hagena, O. F.	116
Gorskiy, B. V.	66	•	- -	52
Gorter, K.	30		Halpaap, H.	20
Gothert, R.	-		Hammarberg, C.	20 35
Gotzen, W.	66		ilanevskaya, I. V.	33

The state of the s

Hannemann, G.	16	Il'yin, V. B. 99	
Hansel, G.	67	Il'yinskiy, I. 1	
Hansel, W.	87	Imai, U. 87	
Hanssman, G.	101	Inagaki, K. 87	
Harde, R.	104	Inoue, II. 55	
Harnandez Parker,		Iraganik, D. 10	
Luis	26	Irik-Farkas, Maria 46	
Hartung, Fritz	9	Isachenko, S. 6	
Harveng, I.	81	Isao Sekiguchi 87	
Hashizume, Tadashi	47	Isayev, B. M. 41	
Hasko, F.	67	Ishlinskiy, A. Yu. 91	
Hausen, H.	115	Istomin, G. A. 98,	100
Hausmann, A.	116	Istomin, N. P. 77	•••
Haussermann, W.	52	Itagaki, H. 96	
Hayashi, M.	87	Ito, Masukuni 23	
Heertjes, P. M.	17	Ivakhnenko, A. G. 38	
Hegedus, Miklos	10	Ivancevic, Velimir 14	
Heiichiro Tohato	87	Ivanchenko, V. Ya. 100	
Heisig, U.	95	Ivanov, D. P. 112	
Hejdanek, Ladislaw	15	Ivanov, N. P. 50	
Hejsek, F.	66	Ivanov, V. T. 89	
Held, H. D.	54		07
Held, W.	67		y 3
Heller, V. Ye.	73	Ivanova, L. V. 41	
Hellova, Vera	15	Ivanter, V. 4	
Henke, F.	82	Ivashchenko, V. V. 78	
Henkes, W.	116	Ivitskiy, A. I. 31	
Hennion, F.		Iwai, Shigehisa 106	
Henriksson, S.	114	Iwao Fujita 106	
	88	<u>-</u>	
Herrera, Armando	28	- J -	
Hesse, M.	53		
Heumann, K.	65	Jablonski, Henryk 14	
Heywang, W.	116	Jaekel, K. 85	
Hirowatari, T.	96	Jagielski, S. 11	
Hirsch, E.	69	Janecke, E. 54	
Hoang Ngoc Di	24	Jaroszewski, Tadeusz M. 16	
Hoang Thuy Nguyen	48	Jaskolski, Stefan 10	
Hoff, H. H.	83	Jastrzebski, 15	
Hoffmann, A.	81	Jaudon, E. 80	
Hoffmann, W.	53	Jelcic, Bozidar 12	
Hofmann, F.	82	Jethon, Z. 47	
Holmstrom, G.	97	Jirounek, P. 45	
Hong Danh	34	Johanson, Kjell E. 19	
Hsu, Hsiao-Feng	78	Jordan, H. 66	
Hsueh Yuan	51	Jovanovic, D. S. 13	
Hua Nan i Hsueh Yuan	44	Jovanovic, Djordje 13	
Hulanicki, S.	38, 55	Jungelaussen, H. 69	
Hunziker, E.	89	Jungmichl, H. 66	
		Juntgen, H. 52	
- I -		Just, W. 30	
Iatan, N.	88		
	120		
Ignatov, I. V.			
Iksanov, M.	31		

Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kholmokiy, V. G. 68 Kholshchevnikov, K. V. 119 Khordas, G. H. 92 Khorosh, I. D. 43 Khoroshevskiy, V. G. 63 Khrakovskiy, Ye. 90 Khudorozhkov, I. P. 72 Khudovekov, B. 3 Kieiel, Henryk 4 Kiessling, R. 88 Kigoshi, Kunihiko 55 Kiknadze, D. N. 64 Kil'chinskaya, G. A. 75 Kim, I. 3 Kim, K. I. 69 Kinoshita, Hideo 58 Kinshase, "GAM" 21 Kirsh, Yu. Ye. 51 Kiselev, V. Ya. 42 Kiss, L. 105 Kitayama, M. 87 Kittler, L. 53 Klyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89			Khenkin, V.	42	
Kabko, G. Kaczer, J. Saczer, J. Saczer, J. Sadomskaya, K. P. 61 Kadomskaya, K. P. 61 Kadomsev, B. B. 59, 109 Khorosh, I. D. Khoroshevskiy, V. G. 63 Kadushin, A. A. 98 Kagan, R. L. 36, 57 Khudorozhkov, I. P. 72 Kaganer, M. G. 109 Kajita, E. 96 Kaijita, E. 96 Kaijita, E. 96 Kakita, Michio Kakita, Michio Kalachev, P. D. 112 Kiknadze, D. N. 64 Kalashnikov, V. F. 118 Kil'chinskaya, G. A. 75 Kalechits, V. 71 Kim, I. 3 Kalinin, M. I. 92 Kim, K. I. 69 Kalinowski, W. 83 Kalinoshita, Hideo 58 Kalnach, Ya. V. 111 Kinshase, "GAM" 21 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Karawahemdovic, Mahmut 12 Karawahemdovic, Mahmut 12 Karawahemdovic, Karamahemdovic, Karamahemdovic, Karamahemdovic, Karamahemdovic, Karamahemdovic, Karamahi, P. 80 Klinov, F. Ya. 35, 31 Klenov, Yef. 1 Karavayev, B. A. 95 Karnothitskiy, V. P. 75 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. Saroly,	Kholshchevnikov, K. V. 119 Khordas, G. H. 92 Khorosh, I. D. 43 Khoroshevskiy, V. G. 63 Khrakovskiy, Ye. 90 Khudorozhkov, I. P. 72 Khudovekov, B. 3 Kieiel, Henryk 4 Kiessling, R. 88 Kigoshi, Kunihiko 55 Kiknadze, D. N. 64 Kil'chinskaya, G. A. 75 Kim, I. 3 Kim, K. I. 69 Kinoshita, Hideo 58 Kinshase, "GAM" 21 Kirsh, Yu. Ye. 51 Kiselev, V. Ya. 42 Kiss, L. 105 Kitayama, M. 87 Kittler, L. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89			Khilyuk, F.	2	
Kaczer, J. 93 Kadomskaya, K. P. 61 Kadomskaya, K. P. 62 Kadomskaya, K. P. 63 Kadushin, A. A. 98 Khadushin, A. A. 98 Khrakovskiy, Ye. 90 Kagan, R. L. 36, 57 Khudorozhkov, I. P. 72 Kaganer, M. G. 109 Khudovekov, B. 3 Kaijta, E. 96 Kaijta, E. 96 Kakiage, S. 87 Kakuta, Michio 106 Kigoshi, Kunihiko 55 Kalachev, P. D. 112 Kiknadze, D. N. 64 Kalachis, V. 71 Kalinin, M. I. 82 Kalinowski, W. 83 Kinoshita, Hideo 58 Kalnach, Ya. V. 111 Kametaro Fujita 96 Kinshase, "GAM" 21 Kametaro Fujita 96 Kirsh, Yu. Ye. 51 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Karawayev, B. A. 92 Klenov, Yef. 1 Karavayev, S. S. 37 Karol, K. S. 18 Klywykov, V. 31 Karol, K. S. 18 Klyuykov, V. 31 Karpenko, I. K. 11 Karpman, G. M. 74 Kartuzhanskiy, A. L. 99, 101 Kasimov, O. I. 57 Knodler, A. 84 Katsuba, P. 7 Kobozev, N. I. 44 Katsuba, P. 7 Kaufmann, H. P. 53 Kochanski, Jerzy 14	Khordas, G. H. 92 Khorosh, I. D. 43 Khoroshevskiy, V. G. 63 Khrakovskiy, Ye. 90 Khudorozhkov, I. P. 72 Khudovekov, B. 3 Kieiel, Henryk 4 Kiessling, R. 88 Kigoshi, Kunihiko 55 Kiknadze, D. N. 64 Kil'chinskaya, G. A. 75 Kim, I. 3 Kim, K. I. 69 Kinoshita, Hideo 58 Kinshase, "GAM" 21 Kirsh, Yu. Ye. 51 Kiselev, V. Ya. 42 Kiss, L. 105 Kitayama, M. 87 Kittler, L. 53 Kiyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89			Kholmokiy, V. G.	68	
Kadomskaya, K. P. 61 Kadomsev, B. B. 59, 109 Kadomtsev, B. B. 59, 109 Kadushin, A. A. 98 Kadushin, A. A. 98 Kagan, R. L. 36, 57 Kudovekov, B. 3 Kajita, E. 96 Kakiage, S. 87 Kakuta, Michio 106 Kalashnikov, V. F. 118 Kalechits, V. 71 Kalinin, M. I. 92 Kalinowski, W. 83 Kalinowski, W. 83 Kalinoshita, Hideo 58 Kalnoch, Ya. V. 111 Kametaro Fujita 96 Kanareykin, B. B. 62 Kanareykin, B. B. 62 Kantor, S. A. 118 Karamehmedovic, Kapushin, S. M. 112 Karawayev, B. A. 92 Karamehmedovic, Karoni, K. S. 18 Karanchi, P. 80 Karinthi, P. 80 Karnozhitskiy, V. P. 75 Karol, K. S. 18 Karol, K. S. 18 Karol, K. S. 18 Karol, R. S. 11 Karapman, G. M. 74 Kasuba, P. Kaushay, J. I. 19 Kato, S. 46 Kato, S. 46 Kato, S. 46 Kato, S. 46 Kasuba, P. Kato, N. 11 Karawakin, J. 11 Karawakin, J. 12 Karawakin, J. 13 Karamehnodovic, Kiyoura, R. 53 Karinthi, P. 80 Karol, K. S. 18 Karol, K. S. 18 Karol, K. S. 18 Karol, R. S. 18 Karol, R. S. 19 Karol, R. S. 19 Karawakin, J. S. Kochanski, Jerzy 14 Katoo, O. 67 Kato, O. 67 Kato, N. K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Khorosh, I. D. Khoroshevskiy, V. G. Khrakovskiy, Ye. 90 Khudorozhkov, I. P. 72 Khudovekov, B. Kieiel, Henryk Kiessling, R. Kigoshi, Kunihiko Kiknadze, D. N. Kil'chinskaya, G. A. Kim, I. Kim, K. I. Kim, K. I. Kinshase, "GAM" Kitselev, V. Ya. Kiss, L. Kiss, L. Kitayama, M. Kittler, L. Kiyoura, R. Klinov, F. Ya. Klivov, Yu. I. Klivtsarev, S. S. Klyuykov, V. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knobold, F. Kobold, F. Kobozev, N. I. Kobold, K. R.			Kholshchevnikov, K. V.	119	
Kadomtsev, B. B. 59, 109 Kadushin, A. A. 98 Kadushin, A. A. 98 Kagan, R. L. 36, 57 Khudorozhkov, I. P. 72 Kaganer, M. G. 109 Kajita, E. 96 Kakiage, S. 87 Kakuta, Michio 106 Kalachev, P. D. 112 Kalechits, V. 71 Kalinin, M. I. 92 Kalinin, M. I. 92 Kalinowski, W. 83 Kalinach, Ya. V. 111 Kametaro Fujita 96 Kanareykin, B. B. 62 Kanareykin, B. B. 62 Kantor, S. A. 118 Karawehmedovic, Mahmut 12 Karavayev, B. A. 92 Karayev, B. A. 92 Karayev, B. A. 92 Karandhitshiy, V. P. 75 Karol, K. S. 18 Karol, R. 95 Karol, K. S. 18 Karol, R. 95 Karol, R. 96 Karol, R. 84 Kasuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55	Khoroshevskiy, V. G. 63 Khrakovskiy, Ye. 90 Khudorozhkov, I. P. 72 Khudovekov, B. 3 Kieiel, Henryk 4 Kiessling, R. 88 Kigoshi, Kunihiko 55 Kiknadze, D. N. 64 Kil'chinskaya, G. A. 75 Kim, I. 3 Kim, K. I. 69 Kinoshita, Hideo 58 Kinshase, "GAM" 21 Kirsh, Yu. Ye. 51 Kiselev, V. Ya. 42 Kiss, L. 105 Kitayama, M. 87 Kittler, L. 53 Kiyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Kadushin, A. A. 98 Kagan, R. L. 36, 57 Khudorozhkov, I. P. 72 Kaganer, M. G. 109 Khudovekov, B. 3 Kajita, E. 96 Kakiage, S. 87 Kakuta, Michio 106 Kalachev, P. D. 112 Kalachev, P. D. 112 Kalashnikov, V. F. 118 Kalinin, M. I. 92 Kalinin, M. I. 92 Kalinin, M. I. 92 Kalinowski, W. 83 Kalnach, Ya. V. 111 Kametaro Fujita 96 Kanor, S. A. 118 Kanor, S. A. 118 Kanor, S. A. 118 Karawehmedovic, Mahmut 12 Karavayev, B. A. 92 Karawayev, B. A. 92 Karamahmedovic, Mahmut 12 Karavayev, B. A. 92 Karanozhitskiy, V. P. 75 Karol, K. S. 18 Karol, R. 95 Karol, K. S. 18 Karol, R. 95 Karol, R. 98 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55	Khrakovskiy, Ye. 90 Khudorozhkov, I. P. 72 Khudovekov, B. 3 Kieiel, Henryk 4 Kiessling, R. 88 Kigoshi, Kunihiko 55 Kiknadze, D. N. 64 Kil'chinskaya, G. A. 75 Kim, I. 3 Kim, K. I. 69 Kinoshita, Hideo 58 Kinshase, "GAM" 21 Kirsh, Yu. Ye. 51 Kiselev, V. Ya. 42 Kiss, L. 105 Kitayama, M. 87 Kittler, L. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klydov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 89 Kobozev, N. I. 44 Koch, K. R. 89	Kadomskaya, K. P.		Khorosh, I. D.	43	
Kagan, R. L. 36, 57 Kaganer, M. G. 109 Khudovekov, B. 3 Kajita, E. 96 Kakiage, S. 87 Kakuta, Michio 106 Kalachev, P. D. 112 Kalachev, P. D. 112 Kalachits, V. 71 Kalinin, M. I. 92 Kalinowski, W. 83 Kalnach, Ya. V. 111 Kametaro Fujita 96 Kanareykin, B. B. 62 Kanareykin, B. B. 62 Kanareykin, B. B. 62 Karamehmedovic, Karamehmedovic, Mahmut 12 Karavayev, B. A. 92 Kargashina, V. A. 56 Karjoh, K. S. 18 Karoly, R. 95 Karoly, R. 95 Karol, R. 95 Kasiwo, O. I. 57 Kasuba, P. 7 Kato, S. 46 Kasuba, P. 7 Kato, S. 46 Kasuba, P. 7 Kato, S. 46 Karamekin, J. 42 Karapan, G. M. 74 Karato, S. 46 Kasuba, P. 7 Kato, S. 46 Kasuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Kavan, I. 55 Kochanski, Jerzy 14 Kachanski, Jerzy 14	Khudorozhkov, I. P. 72 Khudovekov, B. 3 Kieiel, Henryk 4 Kiessling, R. 88 Kigoshi, Kunihiko 55 Kiknadze, D. N. 64 Kil'chinskaya, G. A. 75 Kim, I. 3 Kim, K. I. 69 Kinoshita, Hideo 58 Kinshase, "GAM" 21 Kirsh, Yu. Ye. 51 Kiselev, V. Ya. 42 Kiss, L. 105 Kitayama, M. 87 Kittler, L. 53 Kiyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89		59, 109		63	
Kaganer, M. G. 109 Kajita, E. 96 Kaige, S. 87 Kakuta, Michio 106 Kalachev, P. D. 112 Kalashnikov, V. F. 118 Kali'chinskaya, G. A. 75 Kalechits, V. 71 Kalinin, M. I. 92 Kalinowski, W. 83 Kalnach, Ya. V. 111 Kametaro Fujita 96 Kanor, S. A. 118 Kanor, S. A. 118 Kanutyanskiy, S. M. 112 Karamehmedovic, Mahmut 12 Karawayev, B. A. 92 Karanthi, P. 80 Karinthi, P. 80 Karinthi, P. 80 Karoly, R. 95 Karol, K. S. 18 Karoly, R. 95 Kasimov, O. I. 57 Kato, S. 46 Kator, S. 46 Kato, S. 46 Kato, S. 46 Kator, S. 47 Katolana, V. 75 Katol, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14 Kochanski, Jerzy 14 Kochanski, Jerzy 14 Kochanski, Jerzy 14	Khudovekov, B. Kieiel, Henryk Kiessling, R. Kigoshi, Kunihiko Kiknadze, D. N. Kil'chinskaya, G. A. Kim, I. Kim, K. I. Kinoshita, Hideo Kinshase, "GAM" Kirsh, Yu. Ye. Kiselev, V. Ya. Kiss, L. Kiss, L. Kittler, L. Kiyoura, R. Klenov, Yef. Klevtsov, M. I. Klinov, F. Ya. Klyuykov, V. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I. Kobozev, N. I. Kass Klenov, K. Klyukov, V. Knapp, Rudiger Knodler, A. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I.			Khrakovskiy, Ye.	90	
Kajita, E. 96 Kakiage, S. 87 Kieiel, Henryk 4 Kakiage, S. 87 Kiessling, R. 88 Kakuta, Michio 106 Kigoshi, Kunihiko 55 Kalachev, P. D. 112 Kiknadze, D. N. 64 Kalashnikov, V. F. 118 Kil'chinskaya, G. A. 75 Kalechits, V. 71 Kim, I. 3 Kalinin, M. I. 92 Kim, K. I. 69 Kalinowski, W. 83 Kinoshita, Hideo 58 Kalnach, Ya. V. 111 Kinshase, "GAM" 21 Kametaro Fujita 96 Kirsh, Yu. Ye. 51 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Karawayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Kilnov, F. Ya. 35, 3 Karinthi, P. 80 Karinthi, P. 80 Karinthi, P. 80 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Kato, S. 46 Koch, W. 52 Kasumann, H. P. 53 Kavan, I. 55 Kochanski, Jerzy 14	Kieiel, Henryk Kiessling, R. Kigoshi, Kunihiko Kiknadze, D. N. Kil'chinskaya, G. A. Kil'chinskaya, G. A. Kim, I. Kim, I. Kim, K. I. Kinoshita, Hideo Kinshase, "GAM" Kirsh, Yu. Ye. Kiselev, V. Ya. Kiselev, V. Ya. Kiss, L. Kiyoura, R. Kittler, L. Kiyoura, R. Klenov, Yef. Klevtsov, M. I. Klinov, F. Ya. Klyutsarev, S. S. Klyuykov, V. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I.	Kagan, R. L.	36, 57	Khudorozhkov, I. P.	72	
Kakiage, S. 87 Kakuta, Michio 106 Kigoshi, Kunihiko 55 Kalachev, P. D. 112 Kiknadze, D. N. 64 Kil'chinskaya, G. A. 75 Kalechits, V. 71 Kim, I. 3 Kalinin, M. I. 92 Kim, K. I. 69 Kalinowski, W. 83 Kalnach, Ya. V. 111 Kinshase, "GAM" 21 Kametaro Fujita 96 Kirsh, Yu. Ye. 51 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Karawayev, B. A. 92 Klenov, Yef. 1 Karavayev, B. A. 92 Klenov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Karoly, R. 95 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Kasumann, H. P. 53 Koch, K. R. 89 Kavan, I. 55	Kiessling, R. Kigoshi, Kunihiko Kiknadze, D. N. Kil'chinskaya, G. A. Kim, I. Kim, I. Kim, K. I. Kinoshita, Hideo Kinshase, "GAM" Kirsh, Yu. Ye. Kiselev, V. Ya. Kiselev, V. Ya. Kiss, L. Kituyama, M. Kittler, L. Kiyoura, R. Klenov, Yef. Klevtsov, M. I. Klinov, F. Ya. Klykov, Yu. I. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knodler, A. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I. Kobozev, N. I. Kalinov, K. Kalinov, F. Kobozev, N. I.		109	Khudovekov, B.	3	
Kakuta, Michio 106 Kalachev, P. D. 112 Kiknadze, D. N. 64 Kalashnikov, V. F. 118 Kalechits, V. 71 Kim, I. 3 Kalinin, M. I. 92 Kim, K. I. 69 Kalinowski, W. 83 Kinoshita, Hideo 58 Kalnach, Ya. V. 111 Kinshase, "GAM" 21 Kampt, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kirshamut 12 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Karawayev, B. A. 92 Klevtsov, M. I. 42 Karavayev, B. A. 56 Karinthi, P. 80 Karinthi, P. 80 Karoly, R. 95 Karoly, R. 95 Karoly, R. 95 Karpenko, I. K. 111 Karevan, G. M. 74 Karpushaskiy, A. L. 99, 101 Kartuzhanskiy, A. L. 99, 101 Kato, S. 46 Kato, O. 67 Katohashi, Jerzy 14 Kaufmann, H. P. 53 Kavan, I. 55 Kochanski, Jerzy 14 Kaufmann, H. P. 53 Kochanski, Jerzy 14	Kigoshi, Kunihiko Kiknadze, D. N. 64 Kil'chinskaya, G. A. 75 Kim, I. 3 Kim, K. I. 69 Kinoshita, Hideo 58 Kinshase, "GAM" 21 Kirsh, Yu. Ye. 51 Kiselev, V. Ya. 42 Kiss, L. 105 Kitayama, M. 87 Kittler, L. 53 Kiyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89	Kajita, E.	96	Kieiel, Henryk	4	
Kakuta, Michio 106 Kalachev, P. D. 112 Kiknadze, D. N. 64 Kalashnikov, V. F. 118 Kalashnikov, V. F. 118 Kalechits, V. 71 Kim, I. 3 Kalinin, M. I. 92 Kim, K. I. 69 Kalinowski, W. 83 Kalnach, Ya. V. 111 Kinshase, "GAM" 21 Kamptane Fujita 96 Kirsh, Yu. Ye. 51 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Karawayev, B. A. 92 Klenov, Yef. 1 Karavayev, B. A. 92 Klenov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kigoshi, Kunihiko Kiknadze, D. N. 64 Kil'chinskaya, G. A. 75 Kim, I. 3 Kim, K. I. 69 Kinoshita, Hideo Kinshase, "GAM" 21 Kirsh, Yu. Ye. 51 Kiselev, V. Ya. 42 Kiss, L. 105 Kitayama, M. 87 Kittler, L. 53 Kiyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89	Kakiage, S.	87	Kiessling, R.	88	
Kalachev, P. D. 112 Kiknadze, D. N. 64 Kalashnikov, V. F. 118 Kil'chinskaya, G. A. 75 Kalechits, V. 71 Kim, I. 3 Kalinin, M. I. 92 Kim, K. I. 69 Kalinowski, W. 83 Kinoshita, Hideo 58 Kalnach, Ya. V. 111 Kinshase, "GAM" 21 Kametaro Fujita 96 Kirsh, Yu. Ye. 51 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Mahmut 12 Kienov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55	Kiknadze, D. N. Kil'chinskaya, G. A. Kim, I. Kim, K. I. Kim, K. I. Kinoshita, Hideo Kinshase, "GAM" Kirsh, Yu. Ye. Kiselev, V. Ya. Kiselev, V. Ya. Kitayama, M. Kittler, L. Kiyoura, R. Klenov, Yef. Klevtsov, M. I. Klinov, F. Ya. Klykov, Yu. I. Klyutsarev, S. S. Klyuykov, V. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knodler, A. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I. Kobozev, N. I. Kasa Kittler, L. Kittler,	Kakuta, Michio	106		55	
Kalashnikov, V. F. 118 Kalechits, V. 71 Kalechits, V. 71 Kim, I. 3 Kalinin, M. I. 92 Kalinowski, W. 83 Kalinowski, W. 83 Kalnach, Ya. V. 111 Kametaro Fujita 96 Karsh, Yu. Ye. 51 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Mahmut 12 Karavayev, B. A. 92 Klenov, Yef. 1 Karavayev, B. A. 92 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Karinthi, P. 80 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Kasuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55	Kil'chinskaya, G. A. 75 Kim, I. 3 Kim, K. I. 69 Kinoshita, Hideo 58 Kinshase, "GAM" 21 Kirsh, Yu. Ye. 51 Kiselev, V. Ya. 42 Kiss, L. 105 Kitayama, M. 87 Kittler, L. 53 Kiyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89	Kalachev, P. D.	112		64	
Kalechits, V. 71 Kim, I. 3 Kalinin, M. I. 92 Kilm, K. I. 69 Kalinowski, W. 83 Kinoshita, Hideo 58 Kalnach, Ya. V. 111 Kinshase, "GAM" 21 Kametaro Fujita 96 Kirsh, Yu. Ye. 51 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Karawayev, B. A. 92 Klenov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnothitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Kasuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55	Kim, I. Kim, K. I. Kim, K. I. Kinoshita, Hideo Kinshase, "GAM" Kirsh, Yu. Ye. Kiselev, V. Ya. Kiss, L. Kisayama, M. Kittler, L. Kiyoura, R. Klenov, Yef. Klevtsov, M. I. Klinov, F. Ya. Klyutsarev, S. S. Klyutsarev, S. S. Klyuykov, V. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I. Kanapo, Kanapo, K. Kobozev, N. I.	Kalashnikov, V. F.	118		75	
Kalinin, M. I. 92 Kalinowski, W. 83 Kalnach, Ya. V. 111 Kametaro Fujita 96 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kantor, S. A. 118 Kapstyanskiy, S. M. 112 Karawahmedovic, Mahmut 12 Karavayev, B. A. 92 Karashina, V. A. 56 Karinthi, P. 80 Karinthi, P. 80 Karnozhitskiy, V. P. 75 Karol, K. S. 18 Karoly, R. 95 Karoly, R. 95 Karapan, G. M. 74 Kartuzhanskiy, A. L. 99, 101 Kato, S. 46 Kato, O. 67 Katoh, N. 1. 42 Katoh, N. 1. 53 Katoh, N. 1. 54 Knobozev, N. I. 99 Katsuba, P. 7 Kochanski, Jerzy 14 Kachanski, Jerzy 14 Kachanski, Jerzy 14	Kim, K. I. Kinoshita, Hideo Kinshase, "GAM" Kirsh, Yu. Ye. Kiselev, V. Ya. Kiss, L. Kiss, L. Kitayama, M. Kittler, L. Kiyoura, R. Klenov, Yef. Klevtsov, M. I. Klinov, F. Ya. Klyuvsarev, S. S. Klyuykov, V. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I. Kaleo Kinoshita, M. Koch, K. R. Kideo Kityukov Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I. Kobozev, N. I. Kaleo Kinoshita, Hideo Kobozev, N. I. Kobold, F. Kobozev, N. I. Kobok, K. R.		71		3	
Kalinowski, W. 83 Kalnach, Ya. V. 111 Kametaro Fujita 96 Kirsh, Yu. Ye. 51 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Mahmut 12 Karavayev, B. A. 92 Klenov, Yef. 1 Karavayev, B. A. 92 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knodler, A. 84 Kato, S. 46 Kobold, F. 89 Kasuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55	Kinoshita, Hideo Kinshase, "GAM" Kirsh, Yu. Ye. Kiselev, V. Ya. Kiss, L. Kiss, L. Kitayama, M. Kittler, L. Kiyoura, R. Klenov, Yef. Klevtsov, M. I. Klinov, F. Ya. Klyuvsarev, S. S. Klyuvsarev, S. S. Klyuykov, V. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I. Kallinoshita Kobozev, N. I. Kobold, K. R.	Kalinin, M. I.	92	_ *	69	
Kalnach, Ya. V. 111 Kinshase, "GAM" 21 Kametaro Fujita 96 Kirsh, Yu. Ye. 51 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Mahmut 12 Klenov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kinshase, "GAM" Kirsh, Yu. Ye. Kiselev, V. Ya. Kiss, L. Kitayama, M. Kittler, L. Kiyoura, R. Klenov, Yef. Klinov, F. Ya. Klinov, F. Ya. Klykov, Yu. I. Klyutsarev, S. S. Klyuykov, V. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knodler, A. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I. Kaselev, V. Kisselev, V. Kobozev, N. I. Kaselev, V. Kobozev, N. I. Kaselev, V. Kisselev, V. Kityukov, V. Klinov, Yef. Laselev, Market, S. Kobozev, M. I. Kobold, F. Kobozev, N. I. Kobock, K. R.					
Kametaro Fujita 96 Kirsh, Yu. Ye. 51 Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Mahmut 12 Kienov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Karol, K. S. 18 Karoly, R. 95 Karoly, R. 95 Karpman, G. M. 74 Karpman, G. M. 74 Kartuzhanskiy, A. L. 99, 101 Kato, O. 1. 57 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kirsh, Yu. Ye. Kiselev, V. Ya. Kiss, L. Kiss, L. Kitayama, M. Kittler, L. Kiyoura, R. Klenov, Yef. Klevtsov, M. I. Klinov, F. Ya. Klykov, Yu. I. Klyutsarev, S. S. Klyutsarev, S. S. Klyuykov, V. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knodler, A. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I. Kobozev, N. I. Kasara Kiyashitskiy, I. I. Kobold, F. Kobozev, N. I. Kobold, K. R.	_				
Kampf, H. 119 Kiselev, V. Ya. 42 Kanareykin, B. B. 62 Kiss, L. 105 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Mahmut 12 Klenov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kiselev, V. Ya. 42 Kiss, L. 105 Kitayama, M. 87 Kittler, L. 53 Kiyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Kanareykin, B. B. 62 Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Mahmut 12 Klenov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kiss, L. Kitayama, M. Kittler, L. Kiyoura, R. Klenov, Yef. Klevtsov, M. I. Klinov, F. Ya. Klykov, Yu. I. Klyutsarev, S. S. Klyuykov, V. Knapp, Rudiger Knezevic, Mihailo Kniepkamp, H. Knoch, W. Knyazhitskiy, I. I. Kobold, F. Kobozev, N. I. Kitayama, M. Koch, K. R. Krittler, L. Sar Klyuykov, Yef. Illi Knoch, W. Sar Klyuykov, V. Sar Sar Klyuykov, V. Sar Klyuykov,					
Kantor, S. A. 118 Kitayama, M. 87 Kapustyanskiy, S. M. 112 Kittler, L. 53 Karamehmedovic, Kiyoura, R. 53 Mahmut 12 Klenov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kitayama, M. 87 Kittler, L. 53 Kiyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Kapustyanskiy, S. M. 112 Karamehmedovic, Mahmut 12 Klenov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kartuzhanskiy, A. L. 99, 101 Kartuzhanskiy, A. L. 99, 101 Kato, O. 67 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kittler, L. 53 Kiyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Karamehmedovic, Kiyoura, R. 53 Mahmut 12 Klenov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 30 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Kochanski, Jerzy 14	Kiyoura, R. 53 Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Mahmut 12 Klenov, Yef. 1 Karavayev, B. A. 92 Klevtsov, M. I. 42 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Klenov, Yef. 1 Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89		114			
Karavayev, B. A. 92 Karavayev, B. A. 92 Kargashina, V. A. 56 Klinov, F. Ya. 35, 36 Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55	Klevtsov, M. I. 42 Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89		12			
Kargashina, V. A. 56 Karinthi, P. 80 Karinthi, P. 80 Karnozhitskiy, V. P. 75 Karol, K. S. 18 Karoly, R. 95 Karpenko, I. K. 111 Karpenko, I. K. 111 Kartuzhanskiy, A. L. 99, 101 Kartuzhanskiy, A. L. 99, 101 Kato, O. 67 Kato, S. 46 Kato, O. 67 Katsuba, P. 7 Kaufmann, H. P. 53 Kavan, I. 55 Kachanski, Jerzy 14	Klinov, F. Ya. 35, 36 Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89			·		
Karinthi, P. 80 Klykov, Yu. I. 39 Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Klykov, Yu. I. 39 Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Karnozhitskiy, V. P. 75 Klyutsarev, S. S. 37 Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Klyutsarev, S. S. 37 Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					30
Karol, K. S. 18 Klyuykov, V. 31 Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Klyuykov, V. 31 Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Karoly, R. 95 Knapp, Rudiger 46 Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Knapp, Rudiger 46 Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Karpenko, I. K. 111 Knezevic, Mihailo 17 Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Knezevic, Mihailo 17 Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Karpman, G. M. 74 Kniepkamp, H. 116 Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kniepkamp, H. 116 Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Kartuzhanskiy, A. L. 99, 101 Knoch, W. 52 Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Knoch, W. 52 Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Kasimov, O. I. 57 Knodler, A. 84 Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Knodler, A. 84 Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Kato, O. 67 Knyazhitskiy, I. I. 91 Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Knyazhitskiy, I. I. 91 Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Kato, S. 46 Kobold, F. 89 Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kobold, F. 89 Kobozev, N. I. 44 Koch, K. R. 89					
Katsuba, P. 7 Kobozev, N. I. 44 Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Kobozev, N. I. 44 Koch, K. R. 89			Knyazhitskiy, I. I.		
Kaufmann, H. P. 53 Koch, K. R. 89 Kavan, I. 55 Kochanski, Jerzy 14	Koch, K. R. 89					
Kavan, I. 55 Kochanski, Jerzy 14						
	Kochaneki laway 14					
Kavetskiv. R. Ye. AD Kocharov G Ye. 34					14	
	Kocharov, G. Ye. 34	Kavetskiy, R. Ye.	40		34	
Kavich, I. V. 108 Kogan, A. P. 63					63	
Kazatnovskiy, L. Sh. 64 Kohler, K. 120	Kohler, K. 120			Kohler, K.	120	
Kedziorz, Z. 11 Kohler, W. 84	Kohler, W. 84			Kohler, W.	84	
Keirim-Markus, I. B. 109 Kokhanov, V. V. 98	Kokhanov, V. V. 98	Keirim-Markus, I. B.	109	Kokhanov, V. V.	98	
Keita, Mamadou Kokorin, P. I. 41	Kokorin, P. I. 41	Keita, Mamadou		Kokorin, P. I.	41	
Madeira 21 Kolar, A. 78	Kolar, Å. 78	Madeira	21	Kolar, A.	78	
Keller, P. 54 Kolesnik, V. D. 60	——————————————————————————————————————	Keller, P.	54	——————————————————————————————————————		
Kenji Takagi 46 Kolesnikov, Yu. N. 90		Kenji Takagi	46			
Kesternich, W. 81 Koleva, Delya 13			81			
Khadeyeva, L. A. 49 Kolotiy, V. A. 61	the contract of the contract o			· · · · · · · · · · · · · · · · · · ·		
and the state of t		MIGUATALET DE VE				
	Komarov, F. I. 41	Khan, Z. M.	53	KOIDISNON, YE. YU.	12	

		_	
Komarov, V.	8	Krayzmer, L. P.	60
Komarovskiy, Aleksand	r 31	Kreische, W.	116
Komarovskiy, N. M.	8	Kreyn, S. Ye.	77
Kondritskiy, A. V.	57	Kribchikov, P. F.	56
Kongolo-Mulumba,		Kristoforov, B. D.	56
Anastasie	122	Krivosheyev, A. Ye.	72
Konstantinov, B. P.	34	Krivskiy, L.	34
Konstantinov, K. G.	41	Krivtsova, N. V.	- 112
Konstantinova, V. G.	57	Krivy, I.	51
Kontorovich, B. M.	92	Kronmuller, H.	83
Konyukov, M. V.	109	Krtolov, N. I.	6
Kopelev, Yu. F.	110	Kruchinin, A. M.	62
Koppelmann, F.	65	Krupin, A. V.	72
Kopylov, G. I.	111	Krutov, V. Ye.	68
Korbut, V. A.	32	Kruysse, L.	51
Korda, S.	15	Krylov, M. M.	91
Kordzik, Stanislaw	11	Krylova, L. M.	36
Korenevskiy, Ye. Ya.	76	Kryukova, T. A.	50
	49	Krzeczkowski, S.	117
Korf, D. M.	7 4	Krzemicki, K.	53
Korneyev, N.		• • • • •	59
Korneyev, V. G.	69	Krzyzanowski, J.	55 55
Kornilov, I. I.	49	Kubeczka, K. H.	
Kornilov, I. L.	113	Kucera, K.	78
Kornilov, L.	41	Kudryashova, L. I.	68
Kornilov, Ye. A.	108	Kufman, Ya. I.	68
Korolev, L.	121	Kugel, R. V.	93
Korolev, V.	5	Kugler, Ida	46
Korol'kov, A. M.	70	Kuhn, O.	45
Korshunov, V.	6	Kulagin, G. A.	1
Korsunskiy, I. M.	113	Kulakov, V. M.	7
Kortum, G.	52	Kulikov, V.	7
Kosek, V.	78	Kuliyeva, R. N.	56
Koshin, S. A.	39	Kung, Cheng-tu	51
Kostin, S. I.	35	Kung Chih-pen	38
Kostyshin, M. T.	99	Kunii, K.	87
Kott, J.	104	Kunschner, A.	82
Kotysh, N.	6	Kupfer, R.	82
Kouvaras, Z.	22	Kurenev, S. I.	62
Kovacic, Julijo	14	Kurilenko, A. I.	70
Kovalevskiy, V. A.	89	Kurovskiy, V. N.	64
Kovaliyev, V. B.	90	Kurowski, Zdislaw	14
Kovar, Z.	104	Kusigerski, Georgi	33
Kozakevitch, P.	80	Kusuda Riichi	47
Kozenknop, M. P.	61	Kusumoto, Goro	46
Kozlov, V. F.	43	Kutakhov, Avn P.	6
Kozlova, N. N.	70	Kuvashuk, N. F.	92
Kozlowicz, Wojciech	117	Kuz'mina, S.	41
Kraitor, S. N.	109	Kuznetsov, A. L.	118
	66	Kuznetsov, O. N.	44
Kraiz, A. G.	54	Kuzovkina, T. V.	64
Kremer, J.			
Krasnov, S.	`42	Kyatlov, V. G.	113
Krasnovskiy, N. N.	60		
Krasovskiy, Viktor	•		
Petrovich	3		
Krayev, O. A.	110		
Krayko, A. N.	110		

- L -		Levchenko, V. Ya.	113
laha I	47	Leverkausen, A. G.	86
Laba, L.	47	Levi, S. M.	99
Ladorski, H. Laibach, F.	11	Levin, V.	3
Laininen, P.	45	Levin, V. I.	98
	89	Levin, Ye. S.	98
Lambrecht, D.	118	Levinter, M. Ye.	74
Landau, Benjamin	22	Levit, M. S.	49
Langraf, H.	81	Levitskaya, I. B.	77
Landsberg, R.	54	Levtrinskiy, F.	2
Lang, W.	45	Li,K'o-Ch'eng	114
Lange, E.	86	Li Shi-guang	38
Langemak, G. Ye.	102	Li , Yin-Yuan	114
Lapidovskiy, K.	3	Li Yo-fang	38
Lapik, A. S.	40	Libich, V.	69
Lapshin, I.	3	Lider, K. F.	50
Laptev, I. D.	71	Lifshits, Ye. V.	98
Lasek, J.	115	Lilpop, Adriana	10
Laue, D.	45	Limberg, Ye. A.	30
Lauerer, F. A.	66	Lin, Wen-chen	65
Laurat, Lucien	8	Lipchin, N. N.	72
Lavet, M.	65	Lipskiy, Yu. N.	34
Laville, P.	21	Liseytsev, N. K.	30
Lavrentyeva, V. V.	48	Lisitskaya, L. V.	36
Lax, L.	52	Lisovik, I. P.	71
Lazarescu, Emil	117	Listhuber, F. E.	81
Le Hai Tra	23	Litovchenko, N. M.	113
Le Quoc Than	23	Litvin, F. F.	39
Lebedev, A. V.	98	Liu Chen-hsing	58
Lebedev, V. I.	44	Liu Hsien-min	64
Lebedeva, L. S.	56	Liu P'ei-t'ung	32
Leci, Thanas	13	Liu Wen-cheng	32
Lederle, T.	58	Livshits, P. S.	61
Legat, A.	82	Lizunov, S. D.	61
Legendre, R.	69	Lloshi, Xhevat	15
Lehmann, N. J.	89	Lo, Magatte	20
Lehner, G.	115	Locker, F.	95
Leites, L. V.	61	Loewenguth, J. C.	39
Leitner, W.	78	Loga-Sowinski,	14
Le-Liem	24	Lokshin, P.	1
Lemeshev, S.	1	Longa, Luigi	19
Lenin, V. I.	5	Lorentz, H. A.	59
Lenoble, Jacqueline	58	Lorikyan, M. P.	110
Lenskiy, V. S.	71	Losev, V. B.	74
Leonov, A. I.	113	Loseva, N. A.	
Leonov, P.	5	Loskutov, V.	56
Lepikov, V.	122		62
Lerk, C. F.	17	Loury, M. Lowenthal, Serge	52
Lersmacher, B.	52		115
Lesnicka, Halina	16	Lu Yun Ludering, H.	23
Lesnik, A. G.	112	Lui Shen	83
Letov, A. M.	91		96
Leval'd, Kh. A.	4	Luk'yanovich, V. M.	48
Levallois, J. J.	58, 89	Lutsenko, A.	32
	-0, 05	Lutsenko, K. I.	71

Lutsiy, P. K.	76
Luzan, A. G.	64
Luzin, Y. F.	75
Lyashenko, V. F.	63
Lydtin, H.	52
Lykova, A. V.	112
Lysko, Stanislaw	11
Lyubin, V. M.	99

Macchiocchi, Maria		Nothiau Inggan	•••
Antonietta	19	Mathieu, Jacques	114
Machu, W.		Mathon, P.	78
•	86	Matskevich, V. A.	92
Macinski, T.	11	Matskevich, V. V.	32
Mackenthun, W.	104	Matsumoto, K.	96
Mader, Julius	13	Matsunaga, T.	120
Magidson, O. Yu.	51	Matumi Someno	55
Maillet, Raymond	65	Matuschka, B.	80
Majdak, J.	33	Matveyev, A. M.	3
Makarov, A. D.	90	Matveyev, B. I.	76
Makarov, G. P.	63	Matyushenko, N. N.	76
Makarov, V. N.	57	Matyushina, N. V.	76
Makarova, N. A.	32	Mauer, K.	84
Makelt, H.	85	Maurer, K. L.	84
Makeyev, A. I.	111	Mauyama, Toshio	105
Makhan'kov, V. G.	108,110	Mayer, H.	82
Makhonin, V. A.	59	Mayevskaya, V. M.	43
Maklakov, I. A.	37	Mayewska, Y.	55
Makomaski, A.	83	Mazak, P.	55
Maksuri, A. N.	90	Mazin, I. P.	37
Maksymowicz, Roman	97	Mazuren, A. A.	49
Malinovskiy, B. N.	64	Mchedlov-Petrosyan,	73
Malinovskiy, V. K.	111	O. P.	75
Malir, R.	65	Medvedev, G. P.	49
Malkin, V. I.	71	•	
	43	Medvedkov, V.	6
Malozemova, A. I.	42	Meinke, H.	66
Malykhin, V. M.		Meldahl, A.	94
Mandry, P.	79,80	Melinte, Liviu	14
Mantus, Elias	27	Melkov, A.	1
Manuel Quijano, Jose	26	Mel'nikov, V.	3
Mao, M.	20	Merkulov, V. A.	57
Marakov, S. V.	40	Merus, Vilmos	16
Marchais, Georges	18	Merz, H.	67
Margelov, V.	6	Meshcherskiy, R. M.	40
Margorin, D. K.	63	Messager, C.	79
Marinescu, M.	12	Metski, R. E.	76
Marjani, Stavri	32	Meyer, H. J.	95
Markhilevich, K. I.	99	Meyer-Rassier, E.	83
Marklund, T.	119	Meyerson, G. A.	71
Markman, A. L.	49	Meyklyar, P. V.	99
Markov, N. M.	72	Michiko Shirmura	117
Marl, A. G.	102	Micinski, J.	97
Marmer, Ye. N.	76,77	Migulya, P. S.	76
Marsik, J.	88	Mikhalevskiy, B. N.	2
Martin, Miguel	28	Mikhaylov, I. I.	60
Martinson, Ye. N.	101	Mikhaylov, L.	1
Martynenko, T. P.	109	Milanovic, Petar	12
Mashkov, A. K.	72	Millas, Hernan	28
Maskova, G. B.	36	Miller, O. A.	117
Maslennikov, I.	2	Milovidov, A.	5
Mastryukov, L. A.	61	Minami, Y.	96
Mastyaev, N. Z.	65		
Mateescu, Dan	33	Minina, L. S.	37
vai	J J	Minovskiy, Yu, P.	43

Mirkin, L. I.	113	- N -	
Mironchikov, Ye. T.	60	,,	
Mironenko, A.	6	Nagypal, T.	67
Mironescu, Valeriu	16	Najdenova, L. P.	45
Miroshnichenko, B.	4	Nakada, Y.	47
Misajlovski, Vasko	12	Nakae, H.	87
Misaki, T.	67	Nakajima, Toshiyuki	47
Mitel'man, Ye.	1.	Nakano, S.	96
Mitrofanov, M. G.	119	Nakano, T.	120
Mitrofanov, V.	3	Nakazawa, H.	96
Mitsche, R.	84	Narita. Masakuni	106
Miyano, Katao	106	Naurse, Tutomo	54
Mochizuki, Hiroji	104	Naumov, N. S.	69
Mod, Aladar	13	Naydenov, Ya. I.	62
Moeschlin, Sven	46	Nazarenko, V. G.	88
Moiseyev, O. N.	56	Nazarov, F.	3
Mo11, A.	53	Nazarov, G. S.	110
Moll, K. K.	53	Nazarov, S. Kh.	98
Molleson, I. I.	43	Nazarova, V. S.	56
Molotkovskiy, G. Kh.	30	Necesany, V.	44
Monch, W.	67	N'Dongala, E.	20
Mongiardini, V.	117	Nedumov, N. V.	74
Monteil, M.	69	Nedwig, Helmut	15
Moraru, Ion	16	Nedyukha, I. M.	78
Morev, A. M.	92	Neiman, M. B.	49
Moritz, H.	89	Nekrasova, N. V.	63
Morozov, K. V.	6	Nekrylov, Ye. I.	64
Morozov, M. G.	110	Nemoto, F.	67
Moser, A.	81	Nepomnyashchiy, V. A.	89
Moshkin, Ye. K.	118	Nesmeyanov, A. N.	51
Moskalenko, V.	3	Nesterenko, A. I.	43
Moskalev, Yu. I.	49	Neumann, Bernhard	54
Motz, J.	82	Neumann, M.	116
Moura, H. D.	47	Nghiem Xuan-Yem	23
Mouyabi, Andre	21	Nguyen Lam	23
Moyseyev, V. F.	114	Nguyen Trung Thanh	48
Mrdjenovic, Petar	33	Nguyen Van Chinh	24
Msuch, Shi-yung	114	Nguyen Van Dat	23
Mueller, D.	45	Nguyen Van Loc	33
Mueller, Rolf W.	116	Nguyen Xien	3 3
Mukhayev, V. V.	73	Nicolau, Edmond	5 9
Mukhutdinov, I.	42	Nielson, H.	5 8
Murovannaya, S. G.	76	Nikitin, A.	1
Murzinov, I. N.	110	Nikitin, V. S.	49
Myslov, A.	90	Nikitina, Yu. P.	63
Typical Ma	50	Nikolayenko, V. A.	71
		Nikolayev, G. A.	32
		Nikolic, D.	52 59
		Nilenkiy, A. V.	39 38
		Nilsson, G.	38 54
		Nishikawa, Kaneyasu	95
		Nishikawa, Kyoji	95 117
		Nishimaki, K.	
		Nishimura, Susumu	95,96
		Nobuo Matsunaga	106
		HODEO METSUNASI	46

Nodzynski, Jerzy	10	Ovechkina, T. G.	51
Nogid, L. M.	92	Ovsyannikov, B. V.	30
Nordman, L.	17	Ozerov, V. A.	90
Nosarev, A. V.	73		
Noskov, I.	5	- P -	
Novik, K. M.	106		
Novikov, B. V.	50	Pablo, Michel	8
Novikov, M. L.	92	Pachano, David	26
Novikova, N. R.	99	Paczkowski, Z.	102
Novy, N. A.	50	Paczula, B.	83
		Pal, L.	117
- 0 -		Palatnik, L. S.	77
•		Palkin, S. N.	107
Oblomskaya, I.	4	Palusinski, O.	68
Obruca, L.	65	Panaitescu, G.	70
Oda, M.	96	Panfilova, A. I.	68
Oeters, F.	81	Panov, Yu. O.	30
	2	Papenfuss, Hans-Jurgen	9
Oganesyan, G.	74		12
Ogibalov, R. M.		Papic, Damjan	26
Ogorzaek, A.	55 97	Pardo Llada, Jose	80
Ogura, T.	83	Parisot, J.	
Ohmori, M.	87	Parsadanyan, R. S.	42
Ohshino, Akira	106	Parshin, I.	1.
Ohta, Yukio	47	Pasechnik, Z. N.	62
Oke, Mathias Finagnon	21	Pashkin, V. N.	57
Okhremenko, N. M.	69	Pashmakov, Iv.	44
Okhrimenko, Ya. M.	121	Patau, Jean-Paul	114
Oki, Iwashiro	106	Patterson, W.	82,85
Oldekop, W.	69		94
Olefir, A. K.	63	Pauwels, Johan	22
Oleinikov, N. S.	40	Pavlichenko, O. S.	108
Omelyanenko, Yu. I.	59	Pavlov, G. V.	90
Onodera, Shinsaku	106	Pavlov, I. M.	72
Ooka, T.	55	Pavlov, S. A.	72
Oparin, Ya. I.	39,44	Pavlovic, Ugljesa	12,33
Opuszynski, K.	32	Pavlyuk, A. P.	64
Orbelin, S. I.	74	Pazman, A.	121
Orel'skaya, V. I.	34	Ped', D. A.	37
Oreshkin, P. K.	68	Pedeferri, P.	54
Oreshko, J.	14	Peiter, A.	84
Orlandic, Marko	12	Pelenc,).	65
Orlov, I. N.	65	Perel'man, L. S.	60
Orlov, V. V.	8	Perepelitsa, V. K.	43
	82	_*	30
Orths, K.	46	Perfil'yev, P. P.	115
Ortiz Picon, J. M.	45 45	Perny,	80
Osanec, Jan	43 87	Perrot, P.	40
Osika, Z.		Pervozvanskiy, A. A.	
Osikin, S. D.	57 76	Pessi, Ville	18
Osipov, Yu. S.	36	Peterson, Ye, K.	5
Osiumi, Yoshihiko	47	Petrescu, A.	67
Osswald, K.	66	Petrov, A. A.	118
Ostrobskiy, S.	3	Petrov, B. I.	113
Ostrovs'kiy, A. L.	55	Petrov, Yu. P.	75
Oteta, Andrei	14	Pettersen, Arne	19
Otto, H.	30	Petz, M.	82

Pham Ke	24	Dulantin D V	
Phan Quang	33	Pritulin, P. I.	44
Philibert, J.		Proger, M.	83
	79 95	Prokes, Josef	94
Phillipp, W. H.	85	Prokof'yeva, N. K	71
Pilgrim, Ch.	46	Prosvirin, V. I.	70
Pilipchuk, Yu. S.	40	Prud'homme, M.	122
Pilipets, S.	30	Prusek, Z.	45
Pilkevych, L. A.	60	Pruss, P. Kh.	99
Pinkovskiy, Ya. I.	73	Pshenichnikov, A.	39
Piontelli, R.	54	Putyatin, Yu. T.	101
Piquet, Rene	18	Puzyrewski, R.	117
Pirogov, V. V.	61		
Pisarski, G.	11	- Q -	
Piskarev, Ya. I.	40		
Pistorius, Gunther	9	Quang Thai	24
Pitsch, W.	81		
Plate, D.	66	- R -	
Platonov, P. N.	109		g [*]
Plaude, K. K.	121	Rabas, M.	69
Pletnev, A. P.	98	Rabin'kin, A. G.	61,108
Pliva, L.	94	Rabinovich, A. L.	70
Plyutinskiy, V.	31	Rabotnov, Yu. N.	74
Pobedonostsev, Yu.	120	Rachko, V. A.	107
Podvyazkin, Yu. A.	113	Radanov, R.	44
Poglazona, M. N.	49	Radayeva, Z.	31
Pogorelov, P.	3	Radic, Vaso	17
Pogutse, O. P.	59,109	Radikevich, V. M.	57
Pohl, D.	94	Radionov, Y. B.	60
Polh, F.	115	Radulescu, Gheorghe	11
Pokidyshev, V. V.	71	Radutskiy, O. F.	64
Pokrovskiy, G.	120	Rafailova, H. H.	37
Politzer, G.	46	Ragozina, T. A.	50
Polunin, B. S.	64	Ramenskiy, L. A.	35
Polyakov, Ya. M.	71	Rapotsevich, A. P.	43
Pomietun, K. A.	50	Rashidov, Sh.	7
Ponomarenko, M. V.	31	Rass, T. G.	3
Ponomarev, L. D.	73	Ratkovic, Branko	33
Popa, Aurel-Dumitru	97	Ratner, Ya.	7
Popov, D.	7	Ratniyeks, A. P.	61
Popov, I. I.	58	Ravdel, A. A.	50
Popov, S. M.	60	Ravikovich, A. M.	78
Popova, T. I.	50	Ravizza, P.	86
Popovici, Calin	34	Rayevskaya, M. V.	74
Porte, G.	119	Razim, C.	86
Posey, F. A.	54	Razumova, K. A.	109
Pospelov, D. A.	63	Rebic, Djuro D.	14
Pospelov, V. V.	113	Red'ko, V. N.	39
Pototskiy, M. N.	121	Reede, C. H.	38
Pozdeyev, N. M.	50	Regan, Djuro	33
Pozdnyakov, V.	2	Regel', V. R.	73
Pranch, A. S.	73	Reidt, M. J.	82
Prati, J.	67	Reis, Fernando	47
Preci, Gvido	120	Reitz, A. W.	86
Predel'skiy, A. D.	100	Remezov, N. P.	31
Prifti, Skender	32	Remizova, N. I.	89
-			

D		
Renner, A.	114	- S -
Rex, D,	69	
Rez, I. S.	113	Sabau Bergamin, Jaime 103
Riadchikov, V. G.	50	Sabovljevic, Adela 12
Riboud, P. V.	80	Sabrihafizovic, Muhamed 17
Richard, Fernando	28	Sadovskiy, V. D. 112
Richter, A.	53	Safronov, Yu. P. 112
Rieder, W.	67	Saito, S. 55
Rigin, V. I.	50	Sakae Tajama 117
Rinesch, R.	81	Sakai, T. 120
Ring, M. P.	3	Sakata, Sadahiro 23
Roch, W.	82	Sakharov, B. 121
Rochas, R.	7 9	Salomon, L. 52
Rodionov, M. A.	56	Samoilov, A. G. 103
Rodner, H. Magdeburg	15	Samoilovich, D. M. 100
Rodriguez, M. L.	104	Samsonov, G. V. 50
Roginskiy, O. G.	119	Samsonov, V. 6
Rogovoy, I. D.	111	Samuylov, Ye. V. 119
Romanov, A. K.	64	Sanchez Lalebret,
Romberg, Mikael	18	Rafael 33
Romishevskiy, Ye. A.	110	Sandulova, A. V. 60
Rosencof, Mauricio	26,28,	Santiago, Rafael 26
	59	Sapozhnikov, A. V. 61
Rosenshrrakh, M.	102	Sarol, Z. 47
Rossard, C.	79	
Rossi, A.	117	Saroul, J. 52 Sarychev, V. M. 113
Rostovtsov, D. M.	92	Sasaki, M. 87
Roth, W.	82	<u> </u>
Roustan, J. C.	114	
Rozanova, A. N.	61	A A A A
Rozhnov, D.	4	
Rozitchner, Leon	26	Savitskiy, Ye. M. 50 Savrosov, L. K. 71
Rubin, Betsalel	22	
Rubtsov, I. A.	41	
Rudel, Paul	19	
Rudnitskiy, L. S.	73	Schaefen P
Rudolf, H. R.	83	Schaller, R. 95
Ruhland, B.	82	Schaller, A. 9
Rukhadze, A. K.	111	Scharf, Gerhard 116 Schauh, B. 114
Rul'. E. F.	100	A. 4 4 4 .
Rustamov, A. R.	77	Scheicher, W. 94
Rut, T.	97	Schener, M. 82
Rut'kov, V.	5	Schenck, H. 9
Ryabtsev, L. A.	70	Schenk, M. 46
Rybicki, Zygmunt	14	Schierhold, P 82
Rykunov, L. N.	57	Schlesinger, H. 52
Ryzhanov, S. G.	100	Schmidt, P. 94
Ryzhikov, A. A.	72	Schmidtmann, E. 95
-y-inner, n. n.	16	Schnegelsberg, G. 85

Schneider, H.	9	Shishkov, L. L.	31
Schneyder, Philippe	20	Shitsman, M. E.	107
Schniewind, A. P.	45	Shklennik, Ya. L.	90
Schnitzer, A.	45	Shkol'nik, M. Ya.	32
Scholz, G. H.	53	Shkorbatov, G. L.	44
Schoonenberg, Fred	18	Shlezinger, M. I.	60
Schovanec, K.	104	Shlygin, A. I.	113
Schreiner,H.	67	Shmelov, A. V.	122
Schroth, R.	82	Shnol', Ye. Ye.	114
Schuler, W.	103	Shoichiro Nakamura	105
Schulle, W.	84	Shor, L.	2
Schuller, H.	45	Shor, Ya. B.	93
Schulmeister, R.	86	Shrayber, D. S.	77
Schumacher, Alfred	46	Shternov, A. A.	4,92
Schumann, R.	95	Shuech Bin-wei	65
	81	Sidarenko, L. N.	41
Schwarz, G. K.	115	Sidorov, B. K.	92
Schwiete, H. E.	52		17
Schwuger, M.		Siegrist, H. R.	59
Sebille, J.	80	Simin, D.	39
Selivanov, V. G.	109	Simionati de Fritz,	75
Selivanova, T.	2	A. N.	35 50
Selyunin, Vasiliy	1	Sinayskiy, N. A.	50
Semenov, R. S.	109	Sinel'nikov, K. D.	97,108
Semenova, A. P.	70	Sinel'nikov, M. I.	75
Semenovskiy, A. G.	60	Siniakova, V. G.	50
Semkowicz, Jerzy	88	Sironi, G.	86
Serbanesscu, Ion	14	Sirota, N. N.	107
Serebryakoa, Z. N.	42	Sirvaitis, A.	111
Serezhkina, L. P.	68	Siskov, Yu. A.	56
Sergeyev, Ye. V.	122	Skarlato, O. A.	56
Sergeyev, Yu. S.	119	Sklyarov, L. A.	55
Sergeyeva, A. N.	34	Skorobogatov, V. A.	39
Sergiyenko, S. R.	121	Skoropanov, S. G.	31
Serkov, V. S.	68	Skripko, A. L.	59
Servais, F.	115	Skvortsov, L.	1
	43	Slankiyaskas, A.	112
Seveuk, A. I.	6	Slavnova, S. S.	72
Sevrin, M.	116	Smialowski, M.	88
Seyfarth, H.		Smirnov, A. F.	91
Seynaroyev, B. M.	7 D 49		93
Shakhtakhtinskiy, G.		Smirnov, G. A.	49
Shamov, V. P.	42	Smirnov, M. V.	2
Shcheglov, D. A.	109	Smolyaninov, G.	
Shchukin, Ye.	_3	Smorodinov, M. I.	104
Sheberstov, V. I.	51	Soffker, E.	114
Sheklein, A. V.	71	Sofronov, Yu. D.	92
Shereshevskaya, Z. N		Sokolik, A. S.	119
Shevchenko, V. V.	34	Sokolov, A. N.	44
Shichinov, B. G.	110	Sokolov, I.	31
Shilinis, Yu. A.	43	Sokolov, L. D.	72
Shima, Makoto	55	Soldaczuk, Josef	10
Shimankskiy, B. A.	71	Solntsev, V.	2
Shimkus, Sigizmundas	_	Solodkin, Ye. Ye.	111,112
Shimomura, Ryutaro	95	Solodovnikov, A. I.	93
Shiobara, R.	96	Solov'yev, S. M.	98
Shishkov, K. N.	31	Solov'yev, V. I.	120

Solov'yev, Yu. P.	2	Tabeyev, F.	57
Solska, Alicja	11	Takahashi, Hiroshi	105
Son'kin, R. L.	36	Takashi Morozumi	54
Sonntag, August	54	Talalayev, B. M.	50
Sorkin, Yu. E.	121	Talantov, A. V.	118
Sorokin, V. A.	71	Takoyev, D. A.	1
Sorokina, A. I.	113	Talipov, Sh. T.	49
Sotnikov, V.	31	Tanaka, Yoshihisa	105
Soubbaramayer,	115	Tanida, Hiroaki	106
Spalding, W.	14	Tantsyrev, G. D.	50
Spioch, F. M.	47	Taranenko, Z. I.	93
Spirin, A. S.	48	Tarankov, V.	1
Spitzer, H.	115	Tararayeva, Ye. M.	49
Spoktor, M.	2	Tarasov, N. S.	64
Staib, C.	84	Tarasova, A. P.	77
Stammbach, R.	79	Tarmann, B.	80
Stanislavskiy, L. Ya.	68	Tartakovskiy, I. P.	78
Starodubtsev, S. V.	107	Tashiro, Shingo	47
Staroselskiy, V. B.	92	Tatarchenko, A.	7
Staroskol'skiy, N. A.	60	Tatarskiy, V. I.	35
Stas', I. I.	57	Teiji Kamiyama	105
Stehnovskiy, D. I.	35	Temirbekov, T.	31
Steiner, F.	89	Tenhaven, U.	83
Steinmuller, H.	82	Ter-Avanesyan, D. V.	43
Stenkin, Ye. D.	118	Tesler, E.	91
Stepanyants, L. G.	76	Teterin, P. K.	75
Stepnov, M. N.	111	Thai Van	48
Sterba, M.	65	Thiele, R.	116
Stergui, G. K.	76	Tikhomirova, Yu. M.	49
Stettiner, Richard	122	Timan, M. F.	88
	67	Timofeyev, B.	5
Stiltz, H.	103		111
Stobiecka, A.	104	Tishchenko, A. K.	33
Stohr, K. W.	101	To Duy To Thien	23
Strelenya, L. S.	71		105
Suchkov, A. B.	120	Togo Yasumasa	36
Sugiyama, S.	118	Ye. Ye. Tolstikov	62
Sukever, SH.		Yu. G. Tolstov	
Sukharevskiy, V. M.	48	Tomashuns, L. A.	90
Sul'yanov, A.	6	Tomeczek, Jerzy	117
Sumikawa, Y.	47	Tomic, Ilija	15
Sun, Juang-Jung	122	Tomilov, A. P.	49
Sun, Nien-Tseng	93	Tomura, Teruichi	106
Sunjevaric, Mihailo	33	Topunov, A. M.	69
Suszko, J.	55	Toron, M.	11
Sutic, Slobodan	33	Toropov, N. A.	91
Sviridov, M.	6	Toure, Ahmed Sekou	21
Sychev, V. V.	103	Tovshteyn, M. Ya.	39
Syrojezkina, J. W.	10	Toyohara, Mareichi	47
Sysoyev, A. F.	44	Tozoni, O. V.	89
Szarejko, J.	97	Tran Nguyen	23
Szczepanski, J. A.	16	Tran Sung	48
Szczypiorski, Andrzej	16	Trca, J.	69
Szewalski, R.	117	Trefilov, V. I.	114
Sztano, R.	61	Tret'yakova, R. A.	61
Szunyogh, I.	67	Triche, II.	79

Transfer to

		11111 V V	60
Trifel, M. S.	71	Vasil'yev, Yu. K.	
Trofimov, F. A.	73	Vasin, A.	31
Troitskiy, V. A.	61	Vasyukov, K. A.	37
Trojer, F.	84	Vavilov, A. A.	93
Trubnikova, A. A.	99	Vaynshteyn, Ye. Ye.	110
Truong Chinh	23	Vecer, Jan	8
	22	Vekony, Lajos	10
Tsakalotos, Th.		Veller, V. N.	68
Tsaregorodtsev, G. I.	42		50
Tsarev, B. A.	99	Vereykina, L. L.	
Tsetverikov, I. A.	36,57	Vergnon, P.	79
Tsidilkovskiy, I. M.	107	Verwilst, J.	94
Tsukerman, V. G.	99	Veselov, N.	7
Tsung, H.	102	Vesenskiy, Vladimir	27
Tsuruoka, Y.	67	Vesic, Budimir	14
Tsverava, V. G.	36	Vietzke, H.	53
	113	Viktorov, B.	5
Tsvetkov, V. I.		Vilenskiy, Yu. B.	101
Tsyrin, E. Kh.	49		3
Tsytovich, V. N.	106	Vilesov, G.	
Tubvanskaya, G. S.	51,77	Villain, Jean	16
Tuicu, Nistor	33	Vilyunov, V. N.	118
Tunder, S.	83,79	Vinduskova, ∩.	101
Turk, T.	95	Vinogradov, B. V.	55,56
Turkenic, G. I.	38	Vinogradov, V. V.	98
Tutka, A. K.	61	Vinogradskaya, E. L.	74
	10	Virodov, I. P.	75
Tuu, Laszlo		Viscakas, J.	111
Tyukov, V.	1		40
Tyutyunov, V. A.	117	Vishnevskiy, A. A.	
		Visil'yev, G.	120
- U -		Vlad, Constantin	14
		Vlad, Corneliu	14
Uelhoff, W.	84	Vladimirova, V. V.	41
Ullerfors, K. E.	97	Vladziyevskiy, A.	1
Ul'm, S.	89	Vlasenko, Ye. V.	39
	93	Vlasov, M. A.	107
Ulmania, L. Ya.	107	Vlasov, Ye. V.	110
Ulmanis, L. Ya.			25
Ulrich, E. A.	85	Viieland, W.	114
Unbehauen, Rolf	65	Vodicka, V.	
Unckel, H.	53	Vodvin, V. L.	107
Uvarov, A. V.	111	Voinea, Dana	14
		Voitkovskiy, K. F.	91
- V -		Volchkov, L. G.	112
		Volchkov, Yu. M.	110
Vacnadze, D. I.	38	Volkov, M. G.	62
	25	Volkov, Ya. F.	113
Valecillos, Raimundo	43	Voloshin, V. G.	76
Valivach, M. M.			91
Valnicek, Boris	94	Vol'ter, V. B.	51
van dan Hoven	66	Volvodin, K. V.	
Van Der Goes Van Nate	ers,	Vol'vovskiy, I. S.	57
М.	20	von Ardenne, M.	116
Van'kov, A. A.	104	von Kortzfleisch, B.	84
Vannikov, A.	111	Vorkuyev, B. L.	4
Vashkov, V. I.	51	Vorohyev, A. A.	72
	51	Voronin, N. I.	4
Vasilevskaya, L. P.	6	Vorontsov, P. A.	36,57
Vasil'yev, N.		Voytenko, A. Ye.	119
Vasilyev, V. V.	100	TOY LERKO, A. TE.	

Vantaania V C	40		
Voytsenya, V. S. Vrvantsov, L. A.	60 71	Yeliseyev, V. S.	36 01
Vu Phong	24	Yelizarov, V. P.	91
Vujovic, Nikola	12	Yemel'yanenko, G. A.	103
	30	Yemel'yanov, A.	32
Vulis, L. A.	30	Yemel'yanov, A. A.	91
tu!		Yermak, Yu. N.	110
- W -		Yermolenko, S. D.	30
Wada C		Yeroshin, V. A.	93
Wada, S.	67	Yershov, A. P.	39
Wallquist, G.	88	Yeslulin, G. V.	75
Wang Hua-tung	32	Yevreyinov, Ye. V.	63
Wang Tsun-ch'in	32	Yoneda, K.	96
Wanke, K.	67	Yordanov, D.	38
Washmuht, R.	81	Yoshida, Tatsuo	106
Watanabe, Y.	87	Yoshinaga, Y.	87
Weghaupt, E.	119	Yoshioka, M.	95
Wehrle, C.	65	You Jong-en	65
Weiner, R.	53	Yrmashov, N. N.	72
Weinhart, K.	115	Yudanov, I. G.	2
Welfle, K.	84	Yuditskaya, A. I.	42
Wenzel, W.	9	Yuferov, V. B.	97
Werner, Frank	116	Yusa, H.	122
Widike,	14	Yushchenko, Ye. L.	64
Wiebeck, Bodo-Heinz	45	Yusuke Ishikawa	46
Wied, J. I.	10	· W. GRO I SHIREWA	40
Wiegrehe, W.	52	- Z -	
Wiethoff, G.	83	- 2 -	
Wilfert, M.	78	Zabludovskiy, P. E.	43
	26		
Winocur, Marcos	84	Zaholotnyy, G.	5
Wintermann, G.	85	Zagar, L.	81
Woelk, G.		Zagoruyko, N. G.	98
Wolf, H.	58	Zaharov, V. F.	57
Wuensche, Kurt	16	Zaharova, N. M.	37
Wusatowski, Z.	88	Zaidel, A. N.	100
v		Zakharov, A. M.	49
- Y -		Zakharov, B. N.	122
		Zakharov, L. V.	41
Yada, H.	55	Zakharov, M.	6
Yakolevich, Lev	74	Zaleski, A.	100
Yakovenko, V. V.	30	Zambakhidze, D. V.	73
Yakushenkov, A.	90	Zamorano, Fernando	27
Yamamoto, Osamu	47	Zantberg, R. L.	43
Yamanouchi, S.	96	Zaroni, R.	97
Yamazaki, Yoshihide	105	Zarubin, G. T.	75
Yampol'skaya, R. G.	90	Zarvin, Ye. Yu.	72
Yampolskiy, S.	2	Zaslavskiy, A. M.	68
Yang Ho-min	23	Zaslavskiy, G. M.	107,113
Yanishevskaya, M. N.	49	Zavadovskiy, A. M.	92
Yanishevskiy, A. V.	51	Zavadskiy, Yu.	7
Yankulin, V.	41	Zavarina, M. V.	35,36
Yanshin, V. I.	118	Zavoronkov, Ye. C.	37
Yaroshevich, S. V.	72	Zayeva, A. N.	49
	102	Zelikman, V. L.	99
	104	etilkamii v. L.	フプ
Yefremenko, V. I.			70
Yegorov, Ye. Yegorshina, T. V.	7 75	Zemskov, G. V. Zenin, V. D.	70 75

Zenkevic, L. A.	57
Zhadan, T. A.	75
Zharikov, G. P.	38
Zhou Xin-ji	38
Zhuchkova, N. I.	43
Zhukov, P.	7
Zhukov, V. A.	76
Zhuravlev, Yu. I.	88
Zhurikov, V.	2
Zierep, J.	115
Zima, J.	66
Zimin, Ye. P.	118
Zinchenko, O.	5
Zink, H.	85
Zonnchen, W.	58
Zosimovich, D. P.	50
Zozulya, A.	4
Zubchuk, V. A.	73
Zukal, Ř.	8
Zukauskas A.	112
Zurwehme, D.	45
Zuyev, G. V.	39
Zuyev, Yu. S.	74
Zvara, I.	48
Zvyagintsev, V. V.	109

UNCLASSIFIED
Central Intelligence Agency



7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

Mancy Later Scrifer
Sergio N. Alcivar

Chief, CIA Declassification Center, Declassification Review and Referral

Branch

Enclosures:

- 1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
- 2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)



Processing of OGA-Held CIA Documents

The following CIA documents located at DTIC were reviewed by CIA and declassification guidance has been provided.

OGA Doc ID	Job Num Box Fidr Doc	Вох	Fldr		Doc ID	Document Title	京一次の では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、大きないのである。 では、たまないのでは、たまないのである。 では、たまないのである。 では、たまないのである。 では、たまないのである。 では、たまないのである。 では、たまないのである。 では、たまないのである。 では、たまないのである。 では、たまないのでは、たまないのでは、たまないのでは、 では、たまないのでは、 では、たまないのでは、 では、たまないのでは、 では、たまないのでは、 では、たまないのでは、 では、たまないのでは、 では、 では、 では、 では、 では、 では、 では、	Pub Date F	Pages	Decision	Proc Date
AD0831939	78-03109A	59	-	2	123	Consolidated Translation Survey Through 31 March 1968	nrough 31 March 1968	3/31/1968	252	Approved For Release	3/25/2004
AD0833917	78-03109A	29	-	က	124	Consolidated Translation Survey Through 30 April 1968	nrough 30 April 1968	4/30/1968	223	Approved For Release	3/25/2004
AD0835906	78-03109A	29	-	4	125	Consolidated Translation Survey Through 31 May 1968	rough 31 May 1968	5/31/1968	267	Approved For Release	3/25/2004
AD0838252	78-03109A	29	-	5	126	Consolidated Translation Survey Through 30 June 1968	rough 30 June 1968	6/30/1968	341	Approved For Release	3/25/2004
AD0839299	78-03109A	59	-	9	127	Consolidated Translation Survey Through 31 July 1968	rough 31 July 1968	7/31/1968	354	Approved For Release	3/25/2004
AD0841414	78-03109A	29	-	7	128	Consolidated Translation Survey Through 31 August 1968	nrough 31 August 1968	8/31/1968	255	Approved For Release	3/25/2004
AD0844244	78-03109A	29	-	œ	129	Consolidated Translation Survey Through 30 September 1968	nrough 30 September	9/30/1968	259	Approved For Release	3/25/2004
AD0845247	78-03109A	09	-		130	Consolidated Translation Survey Through 31 October 1968		10/31/1968	252	Approved For Release	3/25/2004
AD0847806	78-03109A	09		8	131	Consolidated Translation Survey Through 30 November 1968		11/30/1968	284	Approved For Release	3/25/2004
AD0848152	78-03109A	09	- ,	က	132	Consolidated Translation Survey Through 31 December 1968		12/31/1968	176	Approved For Release	3/25/2004
AD0848841	78-03109A	09	-	4	133	Consolidated Translation Survey Through 31 January 1969	nrough 31 January 1969	1/31/1969	188	Approved For Release	3/25/2004
AD0850186	78-03109A	09	-	2	134	Consolidated Translation Survey Through 28 February 1969	nrough 28 February	2/28/1969	167	Approved For Release	3/25/2004
AD0851748	78-03109A	09	-	9	135	Consolidated Translation Survey Through 31 March 1969	nrough 31 March 1969	3/1/1969	232	Approved For Release	4/5/2004
AD0853348	78-03109A	09	-	7	136	Consolidated Translation Survey Through 30 April 1969	nrough 30 April 1969	4/30/1969	262	Approved For Release	3/25/2004
AD0856606	78-03109A	09	-	8	137	Consolidated Translation Survey Through 31 May 1969	nrough 31 May 1969	5/31/1969	306	Approved For Release	3/25/2004
AD0857706	78-03109A	63	-	-	138	Consolidated Translation Survey Through 30 June 1969	hrough 30 June 1969	8/22/1969	413	Approved For Release	3/25/2004
AD0858054	78-03109A	63		2	139	Consolidated Translation Survey Through 31 July 1969	hrough 31 July 1969	9/3/1969	185	Approved For Release	3/25/2004
AD0860022	78-03109A	63	-	ဗ	140	Consolidated Translation Survey Through 31 August 1969	hrough 31 August 1969	10/3/1969	315	Approved For Release	3/25/2004
AD0860905	78-03109A	63	-	4	141	Consolidated Translation Survey Through 30 September 1969	hrough 30 September	9/30/1969	285	Approved For Release	3/25/2004
AD0861886	78-03109A	63	-	2	142	Consolidated Translation Survey Through 31 October 1969		10/31/1969	569	Approved For Release	3/25/2004
AD0863371	78-03109A	63	-	9	143	Consolidated Translation Survey Through 30 November 1969		11/30/1969	224	Approved For Release	3/25/2004
AD0864516	78-03109A	63	-	7	144	Consolidated Translation Survey Through 31 December 1969		12/31/1969	177	Approved For Release	3/25/2004